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A CATALOGUE  
OF  
INSECTICIDES AND  
FUNGICIDES

compiled by  
DONALD E. H. FREAR, Ph.D.

*Professor of Agricultural and Biological Chemistry,  
The Pennsylvania State College*

*With a Foreword by F. F. LININGER*

Volume I — 

CHEMICAL INSECTICIDES



1947

WALTHAM, MASS., U.S.A.

*Published by the Chronica Botanica Company*

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• ANNALES CRYPTOGAMICI et PHYTOPATHOLOGICI •  
Volume VII \*

CHEMICAL  
INSECTICIDES

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New Delhi.

# ANNALES CRYPTOGRAMICI et PHYTOPATHOLOGICI *(incorporating Annales Bryologici)*

*edited by*

FRANS VERDOORN, Ph.D.

*Managing Editor, the Chronica Botanica Co.; Special  
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Chronica Naturae, Faalouna, Bryologist; Botanical Secretary,  
International Union of Biological Sciences.*

*Wij en kunnen den Heer en maker van het geheel  
Al niet meer verbeeterlijken, als dat wij in alle zaken,  
hoe klein die ook in onze bloote oogen mogen zijn, als  
ze maar leven en wijsdom hebben ontfangen, zijn al  
wijsheit en volmaaktheit, met de uiterste verwondering  
sien uit spijken.*

*Antoni van Leeuwenhoek*

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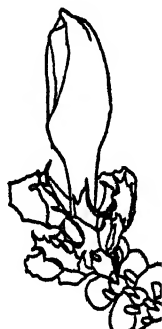
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## FOREWORD

*This compilation represents a portion of the work under Project 999 of the Pennsylvania Agricultural Experiment Station, begun during World War II in an effort to find new insecticides and fungicides to replace those made scarce by war restrictions on shipping and other disruptions of the normal flow of commercial materials. It was the opinion of the leaders of this project that before any concerted effort could be made to search for new pest-control chemicals, previous work in this field should be surveyed completely. This catalogue is a result of the survey.*

*Covering as it does the results of biological testing on a group of approximately 10,000 materials, this catalogue should be of wide use to scientists in the field of insecticides and fungicides. Studies on these pest-control materials have been greatly stimulated within recent years by the discovery of DDT, hexachlorocyclohexane and other new chemicals of high promise. Research work along these lines is assuming an increasingly important place in both industrial and institutional laboratories.*

*The work involved in the preparation of this catalogue differs considerably from that usually conducted under a research project of an Agricultural Experiment Station. It represents the collection and correlation of pertinent facts from a large mass of scientific information, accumulated over a period of years in one field of research, but scattered in many technical publications. With the tremendous increase in scientific knowledge, it will be necessary to condense and compile known facts frequently in future years, if the time of the workers is to be used to best advantage. In many cases, the bringing together of known facts is as important a contribution to research as the discovery of new information.*

*It is a pleasure, therefore, to commend the present catalogue to research workers in entomology, plant pathology, and chemistry. The large amount of time which Dr. FEAR has spent in the preparation of these volumes will be more than repaid, in the aggregate, by the saving of effort on the part of many individual students and investigators who will be spared the necessity of long and tedious literature searches.*

F. F. LININGER, Director,  
The Pennsylvania Agricultural Experiment Station.



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*Annales Bryologici*, a journal devoted to the study of mosses and hepatics, of which we published (in the beginning in cooperation with Messrs. Nijhoff) 12 volumes and 4 supplementary volumes between 1927 and 1939, is now being continued by the **ANNALES CRYPTO GAMICI ET PHYTOPATHOLOGICI** (*see above*).—Complete sets and single vols. of **ANNALES BRYOLOGICI** are still available at \$4.00 a volume.—The bryological exsiccata formerly issued by Dr. FRANS VERDOORN: *Bryophyta Ardeennes Exsiccata* (dec. 1-5, 1927/29), *Hepaticae Selectae et Criticae* (11 series, 1930/39) and *Musci Selecti et Critici* (7 series, 1934/40), have all been sold out.

**BIOLOGIA**, an International Bimonthly Biological Newsletter, was established in January 1947 to fill the need for a small and informal, though not popular, report on progress in international relations, congresses, societies, publications, and related activities in the pure and applied plant and animal sciences.—*Annual subscription*: \$1.00 (post free, foreign and domestic), or \$4.00 for one vol. (4 years), free to all **CHRONICA BOTANICA** subscribers (*cf. supra*).—*Binding cases* will be available shortly at \$1.50 (for one vol. with index: 4 years, post free).—A sample copy of this unique scientific newspaper will be sent on request.

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## PREFACE

*During recent years a great deal of research has been directed toward the finding of new materials for controlling insects and fungi. The discovery of rotenone, a natural product, and several promising synthetic organic chemicals, such as the organic thiocyanates, chloranil, and DDT, have intensified the search for other new and better insecticides and fungicides. The literature on the subject is already voluminous, and nearly every issue of the technical journals contains one or more papers dealing with the testing of new materials against insects and fungi.*

*There is no doubt that new pest-control substances are needed. Many of the commonly used materials are not highly efficient, and most of those which have high toxicity to the lower forms of life are toxic to man and other higher animals to a dangerous degree. Commercially, a rich prize awaits the discoverer of any new insecticide or fungicide which can be demonstrated to have properties superior to the presently used materials.*

*For the most part, the search for new insecticides and fungicides has been a rather haphazard affair. Certain plant families or chemical combinations of demonstrated toxicity have been investigated thoroughly, but outside of these limited fields, the search has been lacking in continuity of effort. At this institution a research project on new insecticides and fungicides was instituted several years ago. In an attempt to approach the problem from a more scientific point of view, it was decided (a) to make a thorough search of the published literature on the subject and (b) to correlate the results of these tests with various physical and chemical properties of the materials used in order to arrive, if possible, at some conclusions regarding the nature of toxic action.*

*The literature search involved the examination of many journals, from which approximately six thousand materials were obtained. An appeal to workers in the field for unpublished data (SCIENCE, December 31, 1943) resulted in the addition of several thousand more substances. It was felt that the publication of a catalogue of the materials thus collected, in a form available for all investigators working with insecticides and fungicides would be of considerable value: first, because it would collect in one place all or nearly all of the published results on tested materials, and would thus save time ordinarily spent in literature searches, and secondly, a brief summary of previous work would result in the elimination of duplication in further studies, making possible a tremendous saving in time and energy for research workers.*

*This, then, is the background for the present catalogue, and the reasons for its presentation. The compilation alone has involved a great deal of routine work, and on the completion of this phase there remained the problem of classification. This was solved by the expedient of a new system of classification, the details of which are given in the Introduction which follows this*

*Preface.* Unfortunately it was not possible to devise any extremely simple system of classification to accommodate the several thousand compounds included, but the system here presented will be easily understood by anyone with a knowledge of chemistry.

Although every effort has been made to make this catalogue as complete as possible up to January, 1944, there are undoubtedly numerous omissions. Since the main purpose of the compilation was to gather information on the less commonly used materials, no effort was made to cover the literature on widely used insecticides and fungicides, such as nicotine, lead arsenate, sulfur, and a number of others. The literature on some of these materials has been summarized adequately by other workers.

The compounds listed herein are named according to the system of nomenclature of the American Chemical Society, as used in CHEMICAL ABSTRACTS. In many cases in which the original authors gave only a general name, or one lacking in specificity, the most logical chemical constitution has been selected, and may be indicated as questionable. In some few cases the name or constitution given in the original publication has been found to be chemically impossible; these are so indicated. All plant names conform to those given in STANDARDIZED PLANT NAMES (second edition, 1942, J. H. McFarland Company, Harrisburg, Pa.).

This compilation would have been impossible without the splendid cooperation of a number of people. Among those who have given freely of their time and knowledge in the preparation of this catalogue are the following: Mrs. HELEN MILLER, Mrs. NORMA PIANKA, Miss FRANCES SUNDAY, Dr. HERMAN KING and Professor G. W. PEARCE. A number of workers of the Committee on Medical Research, Office of Scientific Research and Development, under the direction of Dr. C. C. STOCK, assisted materially in the naming of chemical compounds. Particular mention should be made to the invaluable contributions of Dr. E. J. SEIFERLE, especially on the classification and naming of the organic compounds published in this catalogue. Published and unpublished materials were contributed generously by nearly one hundred workers in the fields covered. Specific mention should be made of the extensive contributions of Dr. ROY HANSBERRY, Dr. E. D. WITMAN, Dr. ERWIN DICYAN, Dr. W. W. ALLEN, Dr. H. C. BREWER, Dr. J. G. HORSFALL, Dr. W. MCMAHON, Dr. J. M. LEMON and Dr. S. E. A. MCCALLAN. The author expresses his obligation and appreciation to all of these. It is the author's hope that if this catalogue serves a useful purpose, it may form the basis for other compendia. To this end he will welcome any further contributions of published or unpublished material, as well as suggestions or corrections of the present work.

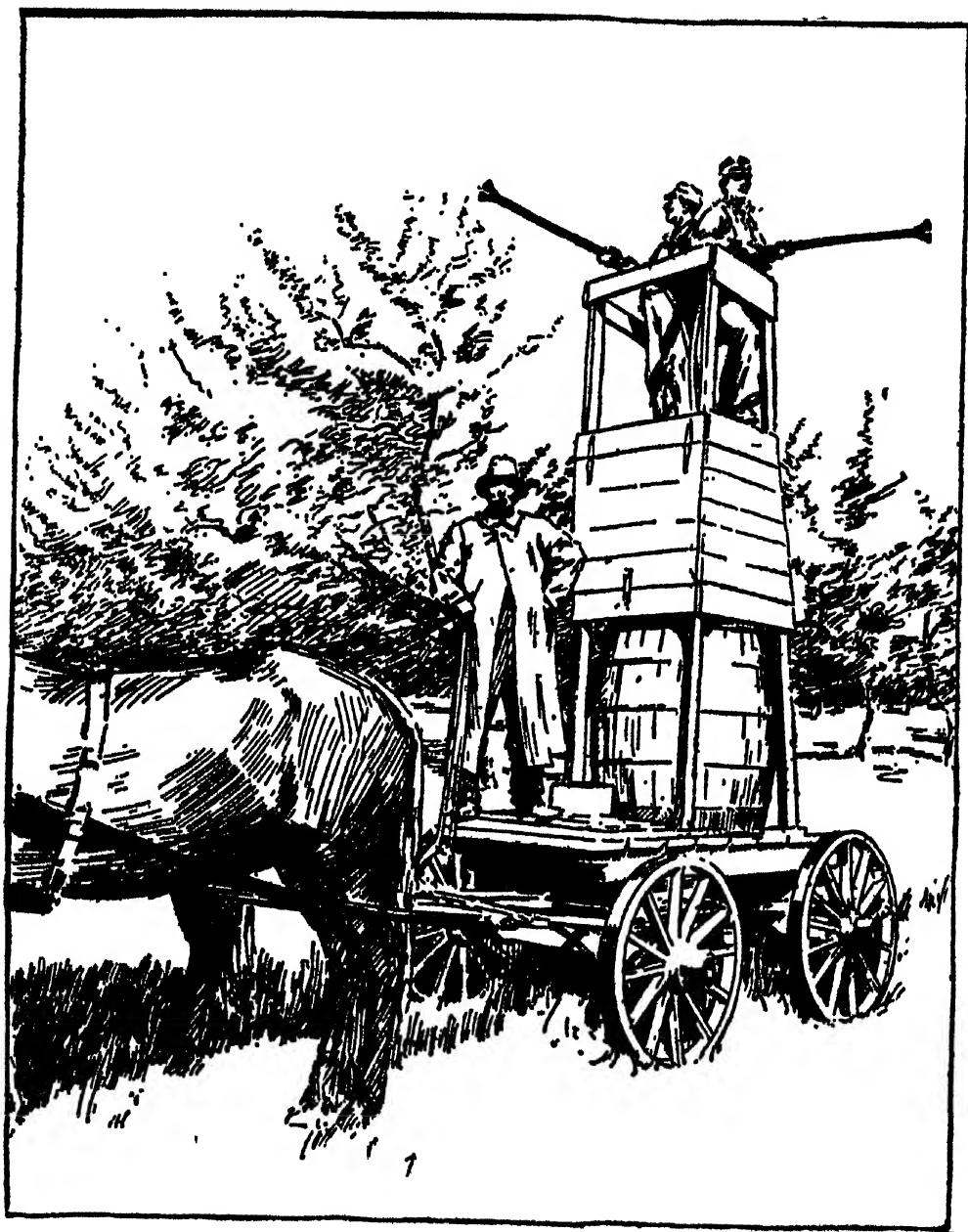
DONALD E. H. FREAR

State College, Pa.  
Summer, 1947

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'AN EXCELLENT SPRAYING OUTFIT FOR TALL ORCHARD TREES' (ca. 1890), after LODEMAN (*The Spraying of Plants*, 1896). — The vignettes on pages 178 and 198 have been reproduced from the same book. — The vignette on page 203 has been taken from a commercial advertisement which appeared about 70 years ago. — The other vignettes are from various editions of MATTIOLI's *herbals*.

# INTRODUCTION

## Arrangement of Compounds — Coding System:—

*General.*—The problem of classifying chemical compounds presents many difficulties. Any simple system, such as an alphabetical arrangement, does not take into consideration the chemical relationships involved, and makes the task of locating related compounds extremely difficult. On the other hand, the complexity of many compounds, particularly those of an organic nature, renders any attempt at complete cross-indexing cumbersome to the point of physical impossibility.

After considerable experimentation with various methods of classification, a new system has been evolved. Approximately 10,000 compounds have been classified by means of this system, with satisfactory results, and it is believed that anyone with an understanding of chemistry can use the system to classify compounds or to locate those already classified.

Briefly, the present system consists of assigning to each chemical compound a "code number". This code number is made up of the numbers assigned to each constituent group present in the compound, according to the prearranged code list given below. In use, the constituent groups in each compound to be coded are assigned numbers beginning with the one bearing the lowest number, and followed by the other constituent groups in numerical order. The length of the code number for any given compound will depend upon the variety of constituent groups present in that particular compound.

### (CH)ONSX

Bromosulfonamides .....	—SO <sub>2</sub> NHBr .....	1
Chlorosulfonamides .....	—SO <sub>2</sub> NHCl .....	3
Fluorosulfonamides .....	—SO <sub>2</sub> NHF .....	5
Iodosulfonamides .....	—SO <sub>2</sub> NHI .....	7
Halosulfonamides .....	—SO <sub>2</sub> NHX .....	9
Mixed———— .....	—SO <sub>2</sub> NBrCl .....	15
	—SO <sub>2</sub> NBrF .....	16
	—SO <sub>2</sub> NBrI .....	17
	—SO <sub>2</sub> NCIF .....	18
	—SO <sub>2</sub> NClI .....	19
Sulfamyl halides .....	—SO <sub>2</sub> NFI .....	20
	H <sub>2</sub> NO <sub>2</sub> SX .....	22

### (CH)ONS

Amidosulfides .....	—CONHSNCO— .....	48
Oxothiocyanates		
(oxoisothiocyanates) .....	—CONCS(—COSCN) .....	52
Sulfonamides .....	—SO <sub>2</sub> NH <sub>2</sub> .....	56

Sulfamides .....	$H_2NSO_2NH_2$ .....	57
Hydrazine sulfonates .....	$H_2NNHSO_2H$ .....	60
Sulfonyl hydrazines .....	$H_2NNHOS_2-$ .....	61
Hydrazine sulfinates .....	$H_2NNHS(:O)OH$ .....	62
Sulfamates .....	$H_2NSO_2H$ .....	65
Thiourethanes .....	$H_2NC(:S)OH$ or $H_2NC(:O)SH$ .....	69

**(CH)ONX**

Bromoamides .....	$-CONHBr$ .....	100
Chloroamides .....	$-CONHCl$ .....	102
Fluoroamides .....	$-CONHF$ .....	104
Iodoamides .....	$-CONHI$ .....	106
Haloamides .....	$-CONHX$ .....	108
Mixed .....	$-CONBrCl$ .....	115
	$-CONBrF$ .....	116
	$-CONBrI$ .....	117
	$-CONClF$ .....	118
	$-CONClI$ .....	119
	$-CONFI$ .....	120
Bromoimides .....	$-C(:NBr)OH$ .....	125
Chloroimides .....	$-C(:NCl)OH$ .....	126
Fluoroimides .....	$-C(:NF)OH$ .....	127
Iodoimides .....	$-C(:NI)OH$ .....	128
Haloimides .....	$-C(:NX)OH$ .....	129

**(CH)OSX**

Sulfobromides .....	$-SO_2Br$ .....	150
Sulfochlorides .....	$-SO_2Cl$ .....	151
Sulfofluorides .....	$-SO_2F$ .....	152
Sulfioidides .....	$-SO_2I$ .....	153
Sulfohalides .....	$-SO_2X$ .....	154

**(CH)NSX****(CH)ON**

Guanylurea derivatives .....	$H_2NC(:NH)NHCONH_2$ .....	173
Carbasides .....	$H_2NNHCONHNE$ .....	175
Semicarbasides .....	$H_2NNHCONH_2$ .....	176
Semicarbasones .....	$=NNHCONH_2$ .....	179
Asoxy compounds .....	$-NN(:O)-$ .....	182
Urea derivatives .....	$H_2NCONH_2$ .....	183
Hydrazides .....	$-CONHNE$ .....	184
Amides .....	$-CONH_2$ .....	185
	$-CONH-$ .....	186
	$-CON=$ .....	187
Hydroxylamines .....	$HONH_2$ .....	188
Carbamates (urethanes) .....	$H_2NCOOH$ .....	189
Oximes .....	$=NOH$ .....	190
Nitroso compounds .....	$-NO$ .....	192
Nitrosoamines .....	$H_2NNO$ .....	194
Amine oxides .....	$NO$ .....	196
Nitroamine compounds .....	$H_2NNO_2$ .....	198
Cyanates .....	$-OCN$ .....	200
Isocyanates .....	$-NCO$ .....	201

Nitro compounds, mono-,	—NO <sub>2</sub>	206
di-,	(—NO <sub>2</sub> ) <sub>2</sub>	207
tri-,	(—NO <sub>2</sub> ) <sub>3</sub>	208
	(—NO <sub>2</sub> ) <sub>n</sub>	209
Nitrites (organic only)	—ONO	210
Nitrates (organic only)	—ONO <sub>2</sub>	211

*Heterocyclic CHON Compounds:—*

More than 6 members in ring		220
6 Members in ring		
Oxazines (morpholine)	C <sub>4</sub> ON	220
Oxadiazines	C <sub>4</sub> ON <sub>2</sub>	221
Oxatriazines	C <sub>5</sub> ON <sub>2</sub>	222
Oxatetrazines	CON <sub>4</sub>	223
Dioxazines	C <sub>5</sub> O <sub>2</sub> N	224
Dioxadiazines	C <sub>5</sub> O <sub>2</sub> N <sub>2</sub>	225
Dioxatriazines	CO <sub>2</sub> N <sub>3</sub>	226
Trioxazines	C <sub>6</sub> O <sub>3</sub> N	227
Trioxadiazines	CO <sub>2</sub> N <sub>2</sub>	228
Tetroxazines	CO <sub>2</sub> N	229
5 Members in ring		
Oxasoles (furomonasoles)	C <sub>3</sub> ON	242
Oxadiazoles (asoxime, furozan, furo (bb <sub>1</sub> ) diazole)	C <sub>3</sub> ON <sub>2</sub>	243
Oxatriazoles	CON <sub>3</sub>	244
Dioxasoles	C <sub>4</sub> O <sub>2</sub> N	245
Dioxadiazoles	CO <sub>2</sub> N <sub>2</sub>	246
Trioxasoles	CO <sub>2</sub> N	247
4 Members in ring		
Retaine	C <sub>2</sub> ON	248

*(CH)OS*

Xanthates	—OCSSH	250
Sulfonic acids	—SO <sub>3</sub> H	258
Sulfinic acids	—S(:O)OH	261
Sulfones	—SO <sub>2</sub> —	264
Sulfoxides	—SO—	265
Thiolates	—C(:O)SH	267
Thionates	—C(:S)OH	269

*Heterocyclic CHOS Compounds:—*

More than 6 members in ring		290
6 Members in ring		
Oxathianes	C <sub>4</sub> OS	301
Oxadithianes	C <sub>4</sub> OS <sub>2</sub>	302
Oxatritthianes	C <sub>5</sub> OS <sub>2</sub>	303
Oxatetrathianes	CO <sub>2</sub> S <sub>3</sub>	304
Dioxathianes	C <sub>5</sub> O <sub>2</sub> S	305
Dioxadithianes	C <sub>5</sub> O <sub>2</sub> S <sub>2</sub>	306
Dioxatritthianes	CO <sub>2</sub> S <sub>2</sub>	307
Trioxathianes	C <sub>6</sub> O <sub>3</sub> S	308
Trioxadithianes	CO <sub>2</sub> S <sub>2</sub>	309
Tetroxathianes	CO <sub>2</sub> S	310



5 Members in ring

Oxathiolanes .....	C <sub>2</sub> OS	315
Oxadithiolanes .....	C <sub>2</sub> OS <sub>2</sub>	316
Oxatrithiolanes .....	COS <sub>2</sub>	317
Dioxathiolanes .....	C <sub>2</sub> O <sub>2</sub> S	318
Dioxadithiolanes .....	CO <sub>2</sub> S <sub>2</sub>	319
Trioxathiolanes .....	CO <sub>3</sub> S	320

(CH)OX

Haloformic acid .....	XCOOH (R)	328
Acylbromides .....	—COBr	330
Acylchlorides .....	—COCl	331
Acylfluorides .....	—COF	332
Acyl iodides .....	—COI	333
Unspecified acylhalides .....	—COX	334
Iodoso compounds .....	—IO	340
Iodoxy compounds .....	—IO <sub>2</sub>	341
Iodonium compounds .....	=IOH	342
Oxonium halides .....	≡OX	350

(CH)NS

Thiuram disulfides .....	H <sub>2</sub> NC(:S)SSC(:S)NH <sub>2</sub>	360
Thiuram sulfides .....	H <sub>2</sub> NC(:S)SC(:S)NH <sub>2</sub>	365
Dithiocarbamates .....	—SC(:S)NH <sub>2</sub>	370
	—SC(:NH)SH	373
Thiocarbazides .....	H <sub>2</sub> NNHCSNH <sub>2</sub>	374
Thiosemicarbazides .....	H <sub>2</sub> NNHCSNH <sub>2</sub>	375
Thioureas .....	H <sub>2</sub> NCSNH <sub>2</sub>	376
Isothioureas .....	HSC(:NH)NH <sub>2</sub>	377
Thioamides .....	—CSNH <sub>2</sub>	385
Thioimides .....	—C(:NH)SH	386
Sulfuramines .....	—SNH <sub>2</sub>	390
Thiocyanates (rhodanates),		
mono-, .....	—SCN	401
poly-, .....	(—SCN) <sub>n</sub>	402
Isothiocyanates, mono-, .....	—NCS	411
poly-, .....	(—NCS) <sub>n</sub>	412

Heterocyclic CHNS Compounds:—

More than 6 members in ring.....	430
----------------------------------	-----

6 Members in ring

Thiazines .....	C <sub>4</sub> NS	440
Dithiazines .....	C <sub>4</sub> NS <sub>2</sub>	441
Trithiazines .....	C <sub>4</sub> NS <sub>3</sub>	442
Tetrathiazines .....	CNS <sub>4</sub>	443
Thiadiazines .....	C <sub>2</sub> N <sub>2</sub> S	444
Dithiadiazines .....	C <sub>2</sub> N <sub>2</sub> S <sub>2</sub>	445
Trithiadiazines .....	CN <sub>2</sub> S <sub>3</sub>	446
Thiatriazines .....	C <sub>2</sub> N <sub>3</sub> S	447
Dithiatrazines .....	CN <sub>2</sub> S <sub>2</sub>	448
Thiatetrazines .....	CN <sub>3</sub> S	449

5 Members in ring

Thiazoles .....	C <sub>4</sub> NS	460
Dithiazoles .....	C <sub>4</sub> NS <sub>2</sub>	461

Trithiaoles	CNS	462
Thiadiaoles	C <sub>2</sub> N <sub>2</sub> S	463
Dithiadiaoles	CN <sub>2</sub> S	464
Thiatriaoles	CN <sub>3</sub> S	465

**(CH)NX**

<b>Aschoalcoamides</b> .....	<b>XN:C(NH<sub>2</sub>)N:NC(NH<sub>2</sub>):NX</b> .	<b>472</b>
<b>Bromoamines</b> .....	<b>—NHBr</b> .....	<b>475</b>
<b>Chloroamines</b> .....	<b>—NHCl</b> .....	<b>477</b>
<b>Fluoroamines</b> .....	<b>—NHF</b> .....	<b>479</b>
<b>Iodoamines</b> .....	<b>—NHI</b> .....	<b>481</b>
<b>Haloamines</b> .....	<b>—NEX</b> .....	<b>483</b>
<b>Bromochloroamines</b> .....	<b>—NBrCl</b> .....	<b>485</b>
<b>Bromofluoroamines</b> .....	<b>—NBrF</b> .....	<b>486</b>
<b>Bromiodoamines</b> .....	<b>—NBrI</b> .....	<b>487</b>
<b>Chlorofluoroamines</b> .....	<b>—NCIF</b> .....	<b>488</b>
<b>Chloriodoamines</b> .....	<b>—NCII</b> .....	<b>489</b>
<b>Fluoriodoamines</b> .....	<b>—NFI</b> .....	<b>490</b>
<b>Halogen imines</b> .....	<b>=NX</b> .....	<b>494</b>

**(CH)SX**

Sulfur bromides	.....—SBr	520
Sulfur chlorides	.....—SCl	521
Sulfur fluorides	.....—SF	522
Sulfur iodides	.....—SI	523
Sulfur halides	.....—SX	524

 $(CH)O$ 

Carboxylic acids, free, mono-,	.....—COOH(M)	541
di-,	.....(—COOH) <sub>2</sub>	542
tri-,	.....(—COOH) <sub>3</sub>	543
	.....(—COOH) <sub>n</sub>	544
Carboxylic esters, mono-,	.....—COOR	551
di-,	.....(—COOR) <sub>2</sub>	552
tri-,	.....(—COOR) <sub>3</sub>	553
	.....(—COOR) <sub>n</sub>	554
Aldehydes, mono-,	.....—CHO	561
di-,	.....(—CHO) <sub>2</sub>	562
tri-,	.....(—CHO) <sub>3</sub>	563
	.....(—CHO) <sub>n</sub>	564
Ketones, mono-,	.....—CO—	571
di-,	.....(—CO—) <sub>2</sub>	572
tri-,	.....(—CO—) <sub>3</sub>	573
	.....(—CO—) <sub>n</sub>	574
Hydroxy compounds, mono-,	.....—OH	581
di-,	.....(—OH) <sub>2</sub>	582
tri-,	.....(—OH) <sub>3</sub>	583
	.....(—OH) <sub>n</sub>	584
Phenates	.....—OM	588
Ethers, mono-,	.....—O—	591
di-,	.....(—O—) <sub>2</sub>	592
tri-,	.....(—O—) <sub>3</sub>	593
	.....(—O—) <sub>n</sub>	594
Peroxides (organic only)		596

*Heterocyclic CHO Compounds:—*

More than 6 members in ring.....	610
6 Members in ring	
Monoxane (pyran) .....C <sub>5</sub> O .....	620
Dioxanes .....C <sub>4</sub> O <sub>2</sub> .....	621
Trioxanes .....C <sub>3</sub> O <sub>3</sub> .....	622
5 Members in ring	
Furan .....C <sub>4</sub> O .....	625
Dioxolanes .....C <sub>3</sub> O <sub>2</sub> .....	626
4 Members in ring	
Oxetane (trimethylene oxide; propylene oxide) .....C <sub>3</sub> O .....	630
3 Members in ring	
Oxirane (ethylene oxide) .....C <sub>2</sub> O .....	632
Heterocyclic compounds containing a heteroatom in addition to O (P, B, As, etc.) in ring .....COZ .....	640

*(CH)N*

Diazoamino compounds (triazines)..HN:NNH <sub>2</sub> .....	650
Hydrazines .....H <sub>2</sub> NNH <sub>2</sub> .....	657
Hydrazones .....=NNH <sub>2</sub> .....	659
Azo, diazo compounds .....—N:N— .....	665
Biguanides .....H <sub>2</sub> NC(:NH)NHC(:NH)NH <sub>2</sub> ..	667
Guanidines .....H <sub>2</sub> NH(:NH)NH <sub>2</sub> .....	668
Cyanamides .....=NCN .....	670
Amines, primary, mono-, .....—NH <sub>2</sub> .....	671
di-, .....(—NH <sub>2</sub> ) <sub>2</sub> .....	672
tri-, .....(—NH <sub>2</sub> ) <sub>3</sub> .....	673
.....(—NH <sub>2</sub> ) <sub>n</sub> .....	674
Amines, secondary, mono-, .....—NH— .....	681
di-, .....(—NH—) <sub>2</sub> .....	682
tri-, .....(—NH—) <sub>3</sub> .....	683
.....(—NH—) <sub>n</sub> .....	684
Amines, tertiary, mono-, .....—N= .....	691
di-, .....(—N=) <sub>2</sub> .....	692
tri-, .....(—N=) <sub>3</sub> .....	693
.....(—N=) <sub>n</sub> .....	694
Quaternary ammonium compounds..N .....	696
Imines .....=NH .....	700
Nitriles (cyanides), mono-, .....—CN .....	701
di-, .....(—CN) <sub>2</sub> .....	702
tri-, .....(—CN) <sub>3</sub> .....	703
.....(—CN) <sub>n</sub> .....	704
Isonitriles (isocyanides), mono-, ...—NC .....	711
di-, .....(—NC) <sub>2</sub> .....	712
tri-, .....(—NC) <sub>3</sub> .....	713
.....(—NC) <sub>n</sub> .....	714

*Heterocyclic CHN Compounds:—*

More than 6 members in ring.....	720
6 Members in ring	
Monasine (pyridine; piperidine)..C <sub>5</sub> N .....	730
Diasines .....C <sub>4</sub> N <sub>2</sub> .....	732

Triasines .....	$C_3N_3$ .....	733
Tetrasines .....	$C_4N_4$ .....	734
Pentasines .....	$CN_5$ .....	735
5 Members in ring		
Azoles (pyrroles; pyrrolidine) ....	$C_4N$ .....	740
Diazoles .....	$C_3N_2$ .....	742
Triazoles .....	$C_2N_3$ .....	743
Tetrazoles .....	$CN_4$ .....	744
4 Members in ring		
Azetidine .....	$C_3N$ .....	746
Uretidine .....	$C_2N_2$ .....	747
3 Members in ring		
Aziridine .....	$C_2N$ .....	750
Heterocyclic compounds containing a heteroatom in addition to N (P, B, As, etc.) in ring.....		
	$CNZ$ .....	760

**(CH)S**

Thiocarbonates .....	$\text{HSC}(:\text{S})\text{SH}$ .....	770
Carbithionates .....	$-\text{CSSH}$ .....	774
Sulfides (thioethers) .....	$-\text{S}-$ .....	781
Disulfides .....	$-\text{SS}-$ .....	782
Polysulfides .....	$-\text{S}-$ .....	783
Thiols (mercaptans), mono-, .....	$-\text{SH}$ .....	791
di-, .....	$(-\text{SH})_2$ .....	792
tri-, .....	$(-\text{SH})_3$ .....	793
.....	$(-\text{SH})_n$ .....	794
Thioketones .....	$-\text{CS}-$ .....	796
Sulfurised compounds .....		800
Sulfonam compounds .....		801

**Heterocyclic CHS Compounds:—**

More than 6 members in ring.....		810
6 Members in ring		
Thiapyran .....	C <sub>5</sub> S	820
Dithianes .....	C <sub>4</sub> S <sub>2</sub>	821
Trithianes .....	C <sub>3</sub> S <sub>3</sub>	822
5 Members in ring		
Thiophene .....	C <sub>4</sub> S	825
Dithioles .....	C <sub>3</sub> S <sub>2</sub>	826
4 Members in ring		
Thiethane .....	C <sub>3</sub> S	830
3 Members in ring		
Thiirane .....	C <sub>2</sub> S	834
Heterocyclic compounds containing a heteroatom in addition to S (P, B, As, etc.).....	CSZ	839

 $(CH)_X$ 

<b>Bromides (organic only), mono-,</b> ...—Br .....	<b>841</b>
di-, .....(—Br) <sub>2</sub> .....	<b>842</b>
tri-, .....(—Br) <sub>3</sub> .....	<b>843</b>
tetra-, ....(—Br) <sub>4</sub> .....	<b>844</b>
penta-, ....(—Br) <sub>5</sub> .....	<b>845</b>
hexa-, .....(—Br) <sub>6</sub> .....	<b>846</b>
....(—Br) <sub>n</sub> .....	<b>847</b>

Chlorides (organic only), mono-, ...—Cl .....	851
di-, .....(—Cl) <sub>2</sub> .....	852
tri-, .....(—Cl) <sub>3</sub> .....	853
tetra-, .....(—Cl) <sub>4</sub> .....	854
penta-, ... (—Cl) <sub>5</sub> .....	855
hexa-, .....(—Cl) <sub>6</sub> .....	856
.....(—Cl) <sub>n</sub> .....	857
Fluorides (organic only), mono-, ...—F .....	861
di-, .....(—F) <sub>2</sub> .....	862
tri-, .....(—F) <sub>3</sub> .....	863
tetra-, .....(—F) <sub>4</sub> .....	864
penta-, ... (—F) <sub>5</sub> .....	865
hexa-, .....(—F) <sub>6</sub> .....	866
.....(—F) <sub>n</sub> .....	867
Iodides (organic only), mono-, .....—I .....	871
di-, .....(—I) <sub>2</sub> .....	872
tri-, .....(—I) <sub>3</sub> .....	873
tetra-, .....(—I) <sub>4</sub> .....	874
penta-, .....(—I) <sub>5</sub> .....	875
hexa-, .....(—I) <sub>6</sub> .....	876
.....(—I) <sub>n</sub> .....	877
Halides (organic only), mono-, .....—X .....	881
di-, .....(—X) <sub>2</sub> .....	882
tri-, .....(—X) <sub>3</sub> .....	883
tetra-, .....(—X) <sub>4</sub> .....	884
penta-, .....(—X) <sub>5</sub> .....	885
hexa-, .....(—X) <sub>6</sub> .....	886
.....(—X) <sub>n</sub> .....	887
Halides, mixed (organic only)	
(iodochlorides, etc.) .....—ICl <sub>2</sub> ; =II, etc. ....	890

(CH)Z

Heterocyclic compounds containing a heteroatom other than O, N or S in ring.

CH

*Cyclic Structures-Condensed Rings:—*

More than 4 condensed rings.....	900
4 condensed rings	
One or more rings containing 7 or more members.....	901
6 + 6 + 6 + 6 Membered.....	902
(Benzanthracene, benzophenanthrene, chrysene, naphthacene, pyrene, triphenylene, etc.)	
5 + 6 + 6 + 6 Membered.....	904
(Aceanthrene, benzacenaphthene, benzofluorene, chrysofluorene, cyclopentanthalene, cyclopentaphenanthrene, etc.)	
5 + 5 + 6 + 6 Membered.....	906
(Cyclopentafluorene, etc.)	
All other systems containing 4 condensed rings.....	908
3 condensed rings	
One or more rings containing 7 or more members.....	909
6 + 6 + 6 Membered.....	910
(Adamantene, anthracene, benzonaphthene, 1,4-ethanaphthalene, phenanthrene, etc.)	

5 + 6 + 6 Membered.....	912
(Acenaphthene, acenaphthylene, bensidine, fluorene, etc.)	
5 + 5 + 6 Membered.....	914
5 + 5 + 5 Membered.....	916
All other systems containing 3 condensed rings.....	920
<b>2 ring systems</b>	
One or more rings containing 7 or more members.....	921
6 + 6 Membered.....	924
(Naphthalene, etc.)	
5 + 6 Membered.....	926
(Indan, indene, isoindene, etc.)	
5 + 5 Membered.....	930
(Norcamphane, etc.)	
4 + 6 Membered.....	932
(Pinene, etc.)	
All other systems containing 2 condensed rings.....	938
<b>Cyclic Structures-Single Rings:—</b>	
More than 6 membered.....	940
6 Membered	
Benzene (fused to another cyclic structure; benz-).....	950
Benzene (phenyl), mono-,..... $-C_6H_5$	951
di-, ..... $(-C_6H_4)_2$	952
tri-, ..... $(-C_6H_3)_3$	953
tetra-, ..... $(-C_6H_2)_4$	954
..... $(-C_6H_2)_n$	955
Cyclohexadiene .....	956
Cyclohexene .....	957
Cyclohexane, mono-, ..... $-C_6H_{11}$	961
di-, ..... $(-C_6H_{10})_2$	962
tri-, ..... $(-C_6H_9)_3$	963
..... $(-C_6H_9)_n$	964
5 Membered .....	968
(Cyclopentadiene, cyclopentene, cyclopentane, etc.)	
4 Membered.....	970
(Cyclobutane, etc.)	
3 Membered.....	972
(Cyclopropane, etc.)	
Aryl (unspecified) .....	975
<b>Non-Cyclic Structures:—</b>	
$C_n$ ( $n = \text{more than } 20$ ).....	980
$C_{20}$ .....	981
$C_{20}$ .....	982
$C_{22}$ .....	983
$C_{27}$ .....	984
$C_{28}$ .....	985
$C_{28}$ .....	986
$C_{24}$ .....	987
$C_{25}$ .....	988
$C_{25}$ .....	989
$C_{21}$ .....	990
$C_{26}$ .....	991
$C_5$ .....	992
$C_7$ mono-, .....	993

C <sub>r</sub> poly-, .....	994
C <sub>r</sub> mono-, .....	995
C <sub>r</sub> poly-, .....	996
C <sub>r</sub> mono-, .....	997
C <sub>r</sub> poly-, .....	998
C <sub>r</sub> mono-, .....	999
C <sub>r</sub> poly-, .....	1000
C <sub>r</sub> mono-, .....	1001
C <sub>r</sub> poly-, .....	1002
C <sub>r</sub> mono-, .....	1003
C <sub>r</sub> poly-, .....	1004
C <sub>r</sub> mono-, .....	1011
C <sub>r</sub> di-, .....	1012
C <sub>r</sub> tri-, .....	1013
C <sub>r</sub> tetra-, .....	1014
C <sub>r</sub> poly-, .....	1015
C <sub>r</sub> mono-, .....	1021
C <sub>r</sub> di-, .....	1022
C <sub>r</sub> tri-, .....	1023
C <sub>r</sub> tetra-, .....	1024
C <sub>r</sub> poly-, .....	1025
Alkyl (unspecified) .....	1027

*Degree of unsaturation (aliphatic only):—*

One double bond .....	1030
Two double bonds	
Adjacent .....	1031
Conjugated .....	1032
Separate .....	1033
Three double bonds	
Conjugated .....	1035
Other .....	1036
Four double bonds	
Conjugated .....	1037
Other .....	1038
More than four double bonds .....	1039
Triple bonds—single .....	1040
Triple bonds—multiple .....	1041
R (unspecified) .....	1045

*Cations:—*

Aluminum .....	Al	1106
Ammonia .....	NH <sub>3</sub>	1108
Ammonium .....	NH <sub>4</sub>	1109
Antimony .....	Sb	
Ionic .....		1110
Organic .....		1111
Arsenic .....	As	
Ionic .....		1112
Organic .....		1113
Barium .....	Ba	1114
Beryllium .....	Be	1116
Bismuth .....	Bi	
Ionic .....		1118
Organic .....		1119
Boron .....	B	1120
Cadmium .....	Cd	1124

Calcium .....	Ca	1126
Carbon, inorganic .....		1128
Cerium .....	Ce	1130
Cesium .....	Cs	1132
Chromium .....	Cr	1136
Cobalt .....	Co	1138
Copper .....	Cu	1142
Germanium .....	Ge	1148
Gold .....	Au	1150
Iron .....	Fe	1162
Lanthanum .....		1164
Lead .....	Pb	
Ionic .....		1166
Organic .....		1167
Lithium .....	Li	1168
Magnesium .....	Mg	1172
Manganese .....	Mn	1174
Mercury .....	Hg	
Ionic .....		1176
Organic .....		1177
Molybdenum .....	Mo	1178
Neodymium .....		1180
Nickel .....	Ni	1182
Nitrogen .....	N	1184
Phosphorus .....	P	
Ionic .....		1192
Organic (phosphonium, etc.) .....		1193
Potassium .....	K	1196
Praseodymium .....		1198
Rubidium .....	Rb	1206
Selenium .....	Se	
Ionic .....		1212
Organic .....		1213
Silicon .....	Si	
Ionic .....		1214
Organic .....		1215
Silver .....	Ag	1216
Sodium .....	Na	1218
Strontium .....	Sr	1220
Sulfur, inorganic .....	S	1222
Tellurium .....	Te	
Ionic .....		1226
Organic .....		1227
Thallium .....	Tl	1228
Thorium .....		1230
Tin .....	Sn	
Ionic .....		1234
Organic .....		1235
Titanium .....	Ti	1236
Tungsten .....	W	1238
Uranium .....	U	1240
Vanadium .....	V	1242
Yttrium .....		1243
Zinc .....	Zn	1244
Zirconium .....		1245
Unspecified metal .....		1246



## Anions:—

Aluminate .....	— $\text{AlO}_2$	1250
Antimonate .....	— $\text{SbO}_2$	1252
Arsenate, ortho-, .....	— $\text{AsO}_2$	1254
Arsenate, meta-, .....	— $\text{AsO}_2$	1255
Arsenate, pyro-, .....	— $\text{As}_2\text{O}_7$	1256
Arsenide .....	— $\text{As}$	1258
Arsenite, ortho-, .....	— $\text{AsO}_2$	1260
Arsenite, meta-, .....	— $\text{AsO}_2$	1261
Aside .....	— $(\text{N}_2)$	1264
Bismuthate .....	— $\text{BiO}_2$	1268
Borate .....	— $\text{BO}_2$	1270
Borate, tetra-, .....	— $\text{B}_4\text{O}_7$	1271
Boride .....	— $(\text{B}_2)$	1272
Bromate .....	— $\text{BrO}_2$	1274
Bromide, inorganic, .....	— $\text{Br}$	1276
Bromoselenate .....	— $\text{SeBr}_2$	1278
Carbide .....	— $\text{C}$	1284
Carbonate .....	— $\text{CO}_2$	1286
Chlorate .....	— $\text{ClO}_2$	1288
Chlorate, per-, .....	— $\text{ClO}_4$	1289
Chloride, inorganic, .....	— $\text{Cl}$	1291
Chlorite .....	— $\text{ClO}_2$	1293
Chlorite, hypo-, .....	— $\text{ClO}$	1294
Chromate .....	— $\text{CrO}_4$	1296
Chromate, di-, .....	— $\text{Cr}_2\text{O}_7$	1297
Chromate, per-, .....	— $\text{CrO}_5$	1298
Cobalticyanide .....	— $\text{Co}(\text{CN})_6$	1300
Cyanate, inorganic, .....	— $\text{OCN}$	1301
Cyanate, iso-, inorganic, .....	— $\text{NCO}$	1302
Cyanide, inorganic, .....	— $\text{CN}$	1303
Cyanide, iso-, inorganic, .....	— $\text{NC}$	1304
Cyanamide, inorganic, .....		1305
Dithionate .....	— $\text{S}_2\text{O}_8$	1306
Ferricyanide .....	— $\text{Fe}(\text{CN})_6$	1308
Ferrocyanide .....	— $\text{Fe}(\text{CN})_6$	1309
Fluocaluminate .....		1310
Fluoborate (Borofluoride) .....	— $\text{BF}_4$	1311
Fluoride, inorganic, .....	— $\text{F}$	1312
Fluosilicate (Silicofluoride) .....	— $\text{SiF}_6$	1313
Fluosulfonic acid .....		1314
Fluotitanate (Titanofluoride) .....	— $\text{TiF}_6$	1315
Fluozirconate .....	— $\text{ZrF}_6$	1317
Halide, unspecified inorganic, .....		1321
Hydroxide .....	— $\text{OH}$	1325
Iodate .....	— $\text{IO}_4$	1330
Iodate, per-, .....	— $\text{IO}_4$	1331
Iodide, inorganic, .....	— $\text{I}$	1333
Manganate .....	— $\text{MnO}_4$	1337
Manganate, per-, .....	— $\text{MnO}_4$	1338
Molybdate .....	— $\text{MoO}_4$	1340
Nitrate .....	— $\text{NO}_3$	1341
Nitride, inorganic, .....	— $\text{N}$	1342
Nitrite .....	— $\text{NO}_2$	1343
Nitroprusside .....	— $\text{Fe}(\text{CN})_5\text{NO}$	1345
Oxide, inorganic, .....	— $\text{O}$	1350

Peroxide .....	$\text{O}_2$	1351
Phosphate, ortho-, .....	$\text{PO}_4$	1356
Phosphate, meta-, .....	$\text{PO}_3$	1357
Phosphate, pyro-, .....	$\text{P}_2\text{O}_7$	1358
Phosphate, hypo-, .....	$\text{PO}_2$	1360
Phosphide .....	$\text{P}$	1362
Phosphite .....	$\text{PO}_3$	1364
Phosphite, hypo-, .....	$\text{PO}_2$	1365
Phosphorylamide .....	$\text{O}_2\text{P}(\text{NH}_2)$	1366
Phosphomolybdate .....		1367
Phosphotungstates .....		1368
Plumbate, ortho-, .....	$\text{PbO}_4$	1369
Plumbate, meta-, .....	$\text{PbO}_3$	1370
Selenate .....	$\text{SeO}_4$	1376
Selenide .....	$\text{Se}$	1378
Selenite .....	$\text{SeO}_3$	1380
Silicate .....	$\text{SiO}_4$	1384
Silicide .....	$\text{Si}$	1386
Stannate .....	$\text{SnO}_4$	1388
Sulfate .....	$\text{SO}_4$	1389
Sulfate, per-, .....	$\text{S}_2\text{O}_8$	1390
Sulfamate .....	$\text{SO}_2\text{NH}_2$	1391
Sulfide, inorganic, .....	$\text{S}$	1392
Sulfite, .....	$\text{SO}_3$	1393
Sulfite, hypo-, .....	$\text{S}_2\text{O}_4$	1394
Sulfite, pyro-, (Metabisulfite) .....	$\text{S}_2\text{O}_5$	1396
Tellurate .....	$\text{TeO}_4$	1400
Telluride .....	$\text{Te}$	1402
Tellurite .....	$\text{TeO}_3$	1404
Thioantimonate .....	$\text{SbS}_4$	1408
Thioarsenate .....	$\text{AsS}_4$	1410
Thioarsenite .....	$\text{AsS}_3$	1412
Thiocyanate, inorganic, .....	$\text{SCN}$	1406
Thiocyanate, iso-, inorganic, .....	$\text{NCS}$	1408
Thiophosphates .....		1413
Thionates, poly-, .....	$\text{S}_x\text{O}_6$	1409
Thiosulfate .....	$\text{S}_2\text{O}_5$	1414
Thiocarbonate .....	$\text{CS}_3$	1415
Titanate, ortho-, .....	$\text{TiO}_4$	1416
Titanate, meta-, .....	$\text{TiO}_3$	1418
Tungstate .....	$\text{WO}_4$	1420
Uranate .....	$\text{UO}_4$	1428
Vanadate .....	$\text{VO}_4$	1430
Zincate .....	$\text{ZnO}_2$	1435
Zirconate .....	$\text{ZrO}_4$	1440
Unspecified anion .....		1450

Reference to the code list shows that organic groups are selected first and inorganic last, this constituting the first subdivision. Compounds containing both organic and inorganic groups are then accommodated with numbers from both these large divisions.

*Organic compounds.*—For the purposes of this classification, organic groups are defined as those which contain carbon and hydrogen alone,

or in combination with one or more of the elements oxygen, nitrogen, sulfur, and the halogens.

The list of constituent organic groups is broken down into 16 divisions, based upon the number of elements present. The first division contains those constituent groups composed of all of the elements, C, H, O, N, S, and X (halogen) and each successive division includes groups of less complexity. The next four divisions thus contain the groups with five elements, (CH)ONS, (CH)ONX, (CH)OSX, and (CH)NSX. Following this are the groups with four elements, then three, and finally the hydrocarbon skeleton of the compound. This is further subdivided into carbocyclic and noncarbocyclic groups.

Parenthetically it should be noted that the presence of O, N, S, or X in the constituent group determines into which division the group falls, and is thus the criterion of the complexity of the group. The carbon atom may or may not occur in each group, and if present, acts solely as a "nucleus" from which depend the other elements; hydrogen may be present coincidentally to complete the valence requirements of one or more of the elements present.

Only the parent combinations are indicated. It is understood that substitutions may, and commonly are made at one or more points in the group. For example, carbazides may have organic radicals attached in place of one or more of the six hydrogen atoms present. Metallic elements may also replace hydrogen in acid groups.

*Subclassification.*—Under each division heading are listed the various constituent groups containing these elements. While in general the whole table is arranged in order of decreasing complexity, within each division it frequently happens that groups are arranged on the basis of chemical similarity rather than actual complexity. The first numbers in each division are assigned to the noncyclic combinations, followed by the heterocyclic structures containing the elements other than carbon characteristic of the division. Many code numbers have been left unassigned, and are available for new groups which may occur in the future use of the system.

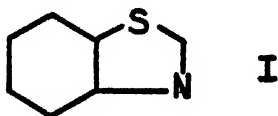
*Inorganic compounds.*—The inorganic groups are divided into those acting primarily as positive ions in water solution (cations) and those acting as negative ions (anions). Certain of the metallic elements combine with organic radicals in a carbon-to-metal linkage. Such combinations are given an "organic" code number to differentiate them from the "ionic" combinations found in inorganic salts and salts of organic acids.

*Specific instructions and conventions.*—

1) In considering a noncyclic combination of elements for classification, the largest group containing no more than isolated carbon atoms is considered as the unit. *These groups are chemical entities, and not necessarily functional groups.* It should be repeated that the largest

possible group is selected in each step of the breakdown. For example,  $-\text{CONH}_2$  is coded as amide, 185, rather than 571 and 671 both of which numbers appear later in the table than 185. Another example of this procedure is guanylurea  $=\text{NC}(:\text{NH})\text{NHCON}=\text{}$ , which is given the number 173, instead of being broken down into guanidine and amide. A careful examination of the groups listed in the table will make such decisions obvious. In groups not containing the carbon atom as an integral part thereof, the extent of the group is limited by its attachment to the carbon structure, such as  $-\text{SO}_2\text{NH}-$  in substituted sulfonamides.

2) In classifying heterocyclic structures, the monocyclic ring is the unit to be selected, regardless of size, and other rings fused or otherwise attached to the heterocyclic structure are considered separately. Examples of this are benzothiazole (I), which is coded as a 5-membered ring,  $\text{C}_6\text{NS}$  (460) and a 6-membered fused carbocyclic ring (950).

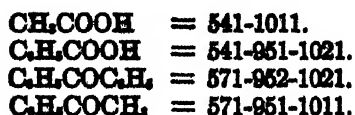


In complex heterocyclic compounds which have the heteroatom common to two or more rings, each ring is coded as though it were a separate entity, even though the common atom is considered twice. Rarely heterocyclic compounds containing an element other than O, N or S in the ring are encountered. These compounds (containing P, B, As, etc.) are grouped under numbers 640, 760, 839 or 895, depending upon the complexity of the ring.

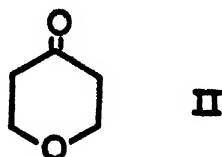
3) Noncyclic carbon chains are coded according to the total number of carbon atoms occurring together without interruption by some other element. Stated another way, the degree of branching does not affect the classification, isobutane having the same number as butane. Isolated carbon atoms occurring in a complex group are given the number of the  $\text{C}_1$  group. Thus urea is coded 183-1021.

4) It has already been mentioned that for certain classification purposes it is sometimes necessary to consider a single atom more than once. This "double coding" is done (in addition to the cases of the common heteroatom and urea mentioned above) in a number of other groups containing isolated carbon atoms. Probably the most common examples are the acid, aldehyde, and ketone groups. In these groups the carbon atom is coded as 1021 if attached only to cyclic structures, or is added to the balance of the acyclic carbon skeleton in noncyclic or mixed structures.

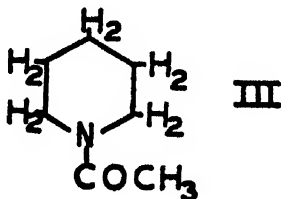
Thus we have:



When the carbon of a ketone group is an integral part of a cyclic structure, the ketone number (571) and the appropriate cyclic number are both assigned to the compound (II).



When a carbonyl group, for example, is attached to the heteroatom in a heterocyclic structure (III) a similar convention is followed:



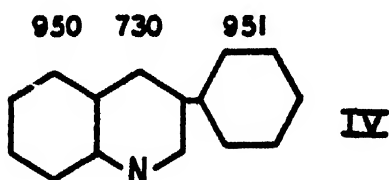
5) Quaternary ammonium compounds are coded under number 696. This number is restricted to completely substituted ammonium compounds. Thus  $\text{R-N}(\text{CH}_3)_3\text{Cl}$  is given the 696 number, while  $\text{R-NH}(\text{CH}_3)_2\text{Cl}$  is classed as an amine (681). Quaternary derivatives of N-heterocyclic compounds come under paragraph (4) above. Hydrochloride-, hydrosulfate-, and other amine and quaternary compounds are coded as inorganic chlorides, sulfates, etc., rather than as  $(\text{CH})\text{NX}$  or  $(\text{CH})\text{ONS}$  groups. The distinction is rather obvious in this case.

6) Provision is made (numbers 1030-1041) for the differentiation of saturated from unsaturated noncyclic compounds. With cyclic compounds of 6-members (cyclohexane, cyclohexadiene, and benzene) separate code numbers are assigned. Compounds like the quinones consisting of a six-membered ring with two double bonds in the ring by virtue of an attachment to an element outside the ring are considered to be benzene derivatives, rather than cyclohexadiene. In all other cyclic compounds, no distinction is made on the basis of saturation: thus pyridine and piperidine are both coded as 730, pyrrole and pyrrolidine as 740.

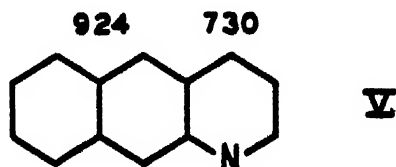
7) In several cases of the more commonly occurring groups provision is made for coding two, three, or more groups of the same kind. Triphenylbenzene, for example, is coded simply as 954. This procedure effects a more orderly arrangement of related compounds in the final classification. In these cases, the last member of each series is given the subscript *n*. This indicates either (a) a number of groups greater than the last preceding entry, or (b) an unspecified number of groups. Thus a compound containing three nitro groups is given number 208, while compounds containing four or more, or an unspecified number of nitro groups, is given number 209.

8) Organic radicals attached to multivalent inorganic ions are coded as single units, regardless of the valence of the inorganic ion. Calcium acetate,  $(\text{CH}_3\text{COO})_2\text{Ca}$ , is coded as 541-1011-1126. It should be noted that this applies only to inorganic ions, and that distinction is made between organic acids combined with metallic elements (541) and esters (551): similarly alcohols (581) and alcoholates (phenates, 588). Compounds with non-ionic inorganic atoms are coded according to the number of organic radicals present: for example, triphenyl phosphine  $(\text{C}_6\text{H}_5)_3\text{P}$  is coded 953-1193.

9) A distinction is made between benzene rings attached at one carbon atom (phenyl-, 951) and those fused to another cyclic structure at more than one carbon atom (benz-, 950). The compound given below (IV) is coded as shown.



The product of the fusion of a multiple carbocyclic system, such as naphthalene, to a heterocyclic ring is coded with the number of the carbocyclic structure to indicate the presence of this unit (V):



*Examples of coding.*—Below are given a few examples of coding. The constituent groups are separated by lines in order to make the process more easily understood.

	999	581	
Isoamyl alcohol;	$(\text{CH}_2)_4\text{CHCH}_2\text{CH}_2$	OH	
951	591	1011	
Phenetole;	$\text{C}_6\text{H}_5\text{O}$	$\text{C}_6\text{H}_5$	
841	951	1021	671
<i>o</i> -Toluidine, 4-bromo-;	Br	$\text{C}_6\text{H}_4$	$(\text{CH}_3)\text{NH}_2$
951	186 1021	1001	
Benzamide, <i>N</i> -butyl-;	$\text{C}_6\text{H}_5\text{CONH}$	$\text{C}_4\text{H}_9$	

(Note that the amide group is coded with both 186 and 1021).

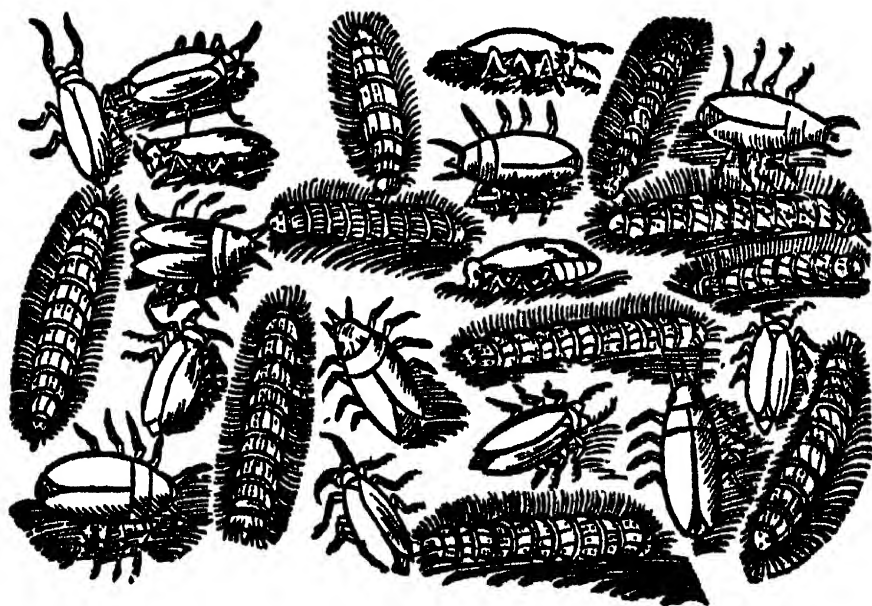
	997	179
Butyraldehyde, $\alpha$ -ethyl-, semicarbazone;	$(\text{C}_2\text{H}_5)\text{CHCH}$	$\text{NNHCONH}_2$
		1021

*Catalogue listings.*—The compounds listed in this catalogue are arranged in order of their code numbers. This results in placing together all compounds with code numbers beginning with the same constituent groups. Compounds having the same first constituent numbers are then arranged in order of their second number, etc. In locating a given compound in the catalogue, probably the easiest way is to code the compound required, and then look under that code number in the catalogue. For example, if one desires to find acetic acid, it is coded as 541-1011, and this code number is located in its proper numerical sequence. In many cases it will not be necessary to work out the complete code number for a complex compound. For example, it is relatively easy to determine by inspection which constituent group takes precedence, and to locate the compound under the proper numerical heading. *For the convenience of readers who prefer to locate compounds by name, a complete alphabetical index of all compounds is given at the end of Volume II.*

*Abbreviations, References, etc.*—In order to conserve space, abbreviations have been used rather freely in the preparation of this catalogue. The information for each compound is given in the following order: name (according to the Chemical Abstracts system), formula, synonyms, organisms against which the compound has been tested, with results, and finally, reference numbers.

The abbreviations used throughout this catalogue are as follows, in order of their appearance: (1) CU = constitution unspecified. This is used to indicate that the name of the compound as given was not sufficiently specific to establish the exact configuration. In cases where there was considerable question concerning the identity of the compound, or when it was impossible to assign even an empirical formula, the compound was placed in the miscellaneous group at the end of the section. (2) In stating the results of the toxicity tests, ST, MT, HT and NT indicate slight toxicity (10-30%), medium toxicity (30-80%), high toxicity (above 80%), and no toxicity (below 10%), respectively. Where the authors gave no indication of the degree of toxicity, T (toxic) has been used. The concentrations of chemicals tested have been given where known; thus "HT *Sclerotinia* at 1%" indicates that the compound when tested at 1 per cent concentration was highly toxic to *Sclerotinia*.

The reference numbers refer to the alphabetical list of references given at the end of each volume. To avoid confusion, each reference has been given a separate number. However, only those references cited in this volume are listed at the end of the volume. The letter P following a reference number indicates a patent. For convenience, the patents are listed separately by countries, and by numerical order, as well as alphabetically by patentees. *An alphabetical index of all compounds appearing in both volumes is given at the end of Volume II.*





# CHEMICAL INSECTICIDES

- 3-951-1021.  
p-Toluenesulfonamide, N, N-dichloro-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCl}_2$ . (p-Toluene sulphonodichloroamide; dichloramine T).  
Mothproofing agent; T screwworms; NT codling moth larvae. 156, 239, 1176, 1287, 1365P.
- 3-951-1021-1312.  
p-Toluenesulfonamide, N-chloro-, sodium salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NClNa}$ . (Chloramine T).  
MT *Aphis rumicis* and as mothproofing agent; ST codling moth larvae. 239, 1153, 1287.
- 22-330-1312.  
4-Morpholinesulfonyl fluoride;  $\text{FO}_2\text{SN}(\text{CH}_2\text{CH}_2)_4\text{O}$ . (Morpholine sulfamic acid fluorides). 344P.
- 22-551-1011-1022-1312.  
Sulfamyl fluoride, N-carbomethoxymethyl-N-methyl-;  $\text{FO}_2\text{SN}(\text{CH}_3)\text{CH}_2\text{COOCH}_3$ . (Barcosine methyl ester of sulfamic acid fluoride). 344P.
- 22-702-1012-1312.  
Sulfamyl fluoride, N,N-bis(2-cyanoethyl)-;  $\text{FO}_2\text{SN}(\text{C}_2\text{H}_4\text{CN})_2$ . ( $\beta,\beta'$ -Dicyanodiethylamine sulfamic acid). 344P.
- 22-730-1312.  
1-Piperidinesulfonyl fluoride;  $\text{C}_6\text{H}_{10}\text{NSO}_2\text{F}$ . (Piperidine sulfamic acid fluoride). 344P.
- 22-852-1012-1312.  
Sulfamyl fluoride, N,N-bis(2-chloroethyl)-;  $\text{FO}_2\text{SN}(\text{C}_2\text{H}_4\text{Cl})_2$ . ( $\beta,\beta'$ -Dichlorodiethylamine sulfamic acid). 344P.
- 22-951-1011-1021-1312.  
Sulfamyl fluoride, N-methyl-N-phenethyl-;  $\text{FO}_2\text{SN}(\text{CH}_3)\text{C}_6\text{H}_5\text{C}_2\text{H}_5$ . (N-Methyl- $\beta$ -phenylethylamine sulfamic acid fluoride). 344P.
- 22-999-1021-1312.  
Sulfamyl fluoride, N-dodecyl-N-methyl-;  $\text{FO}_2\text{SN}(\text{CH}_3)\text{C}_{11}\text{H}_{23}$ . (Methyl dodecylamine sulfamic acid fluoride). 344P.
- 22-997-1021-1312.  
Sulfamyl fluoride, N-hexyl-N-methyl-;  $\text{CH}_3(\text{C}_6\text{H}_{11})\text{NSO}_2\text{F}$ . (Methylhexylamine sulfamic acid fluoride). 344P.
- 22-1027-1312.  
Sulfamyl fluoride derivatives;  $\text{RR}'\text{NSO}_2\text{F}$ . 344P.
- 48-952-1021.  
Benzamide, N,N'-thiodi-;  $\text{C}_6\text{H}_5\text{CONHSENOOC}_6\text{H}_5$ . (Bis(benzamido) sulphide).  
NT mosquito larvae. 487.
- 52-593-951-1025.  
Isothiocyanic acid, 3, 4, 5-trimethoxybenzoyl ester?  $(\text{CH}_3\text{O})_3\text{C}_6\text{H}_3\text{CONCS}$ . (3, 4, 5-Trimethoxybenzoyl isothiocyanate).  
ST culicine mosquito larvae at 1-10,000. 172, 1178.
- 52-951-1022.  
Isothiocyanic acid, benzoyl ester;  $\text{C}_6\text{H}_5\text{CONCS}$ . (Benzoyl isothiocyanate).  
T goldfish. 295, 1178.
- 56-186-306-952-1011.  
Acetanilide, p-(m-nitrophenylsulfamyl)-;  $\text{CH}_3\text{CONH}\cdot\text{HC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{NO}_2$ . (p-Acetamino-N-m-nitrophenylbenzene sulfonamide; N-acetyl-N-m-nitrophenylsulfanilamide).  
ST codling moth larvae; NT screwworm larvae. 944, 1287.
- 56-186-306-952-1011.  
Acetanilide, p-(o-nitrophenylsulfamyl)-;  $\text{CH}_3\text{CONH}\cdot\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{NO}_2$ . (p-Acetamino-N-o-nitrophenylbenzene sulfonamide; N-acetyl-N-o-nitrophenylsulfanilamide).  
ST codling moth; NT screwworm larvae. 944, 1287.
- 56-186-306-952-1011.  
Acetanilide, p-(p-nitrophenylsulfamyl)-;  $\text{CH}_3\text{COHN}\cdot\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{NO}_2$ . (N-Acetyl-4-nitrosulfanilamide).  
NT codling moth larvae. 1287.
- 56-186-330-951-1011.  
Acetanilide, p-(4-morpholinesulfonyl)-;  $\text{CH}_3\text{CONH}\cdot\text{C}_6\text{H}_4\text{SO}_2\text{N}(\text{CH}_2\text{CH}_2)_4\text{O}$ . (N-(p-Acetaminophenylsulfonyl)-morpholine).  
MT codling moth larvae; NT as mothproofing agent. 239, 1287.
- 56-186-258-581-955-924-951-1011.  
Prontosil soluble;  $\text{CH}_3\text{CONH}(\text{SO}_3\text{Na})_2(\text{OH})\text{C}_{10}\text{H}_8\text{N}$ :  $\text{NC}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (7-Acetamido-1-hydroxy-2-(p-sulfamylphenylazo)-naphthalene-3, 6-disulfonic acid, disodium salt).  
NT codling moth larvae. 1287.
- 56-186-258-581-951-952-1011.  
1-Phenol-2-sulfonic acid, 6-(3-acetamidophenylsulfonyl)-4-chloro-;  $\text{HOOC}_6\text{H}_4(\text{Cl})[\text{SO}_2\text{NHC}_6\text{H}_4(\text{NHCOCH}_3)]\text{SO}_3\text{H}$ . (Phenol, 4-chloro-2, 6-disulpho-3'-acetylamino-1'-anilide).  
T as mothproofing agent. 464P, 1176.
- 56-186-531-851-953-1012.  
1-Phenol-2, 6-disulfonamide, 3', 3''-diacetamido-4-chloro-;  $\text{Cl}(\text{OH})\text{C}_6\text{H}_3(\text{SO}_2\text{NHC}_6\text{H}_4\text{NHCOCH}_3)_2$ . (m-Benzenedisulphonanilide, 5-chloro-2-hydroxy-bis-3'-acetylmino; 4-chloro-1-phenol-2, 6-disulfo-bis-3'-acetylamido-1'-anilide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-186-852-951-953.  
Stearamide, N-(3, 4-dichlorophenylsulphonyl)-;  $\text{C}_{17}\text{H}_{33}\text{CONHSO}_2\text{C}_6\text{H}_3\text{Cl}_2$ . (3, 4-Dichlorobenzenesulphostearic acid amide).  
T as mothproofing agent. 440P, 1179.
- 56-186-852-951-953-1030.  
Oleamide, N-(3, 4-dichlorophenylsulphonyl)-;  $\text{C}_{18}\text{H}_{33}\text{CH}(\text{CH}_2)_7\text{CONHSO}_2\text{C}_6\text{H}_3\text{Cl}_2$ . (3, 4-Dichlorobenzenesulphooleic acid amide).  
T as mothproofing agent. 440P, 1179.
- 56-186-854-952-999.  
Valeranilide, 2-chloro-5-(2, 4, 5-trichlorophenylsulfamyl)-;  $(\text{Cl})_3\text{C}_6\text{H}_2\text{SO}_2\text{NHC}_6\text{H}_4\text{NHCOCH}_2\text{C}_6\text{H}_4(\text{Cl})$ . (Benzene, 1,2,5-trichloro-4-sulpho-3'-n-valerylamino-4'-chloranilide).  
T as mothproofing agent. 428P, 464P, 730P, 1175, 1176.
- 56-186-854-953-1011.  
Acetanilide, 2, 4-bis(3, 4-dichlorobenzenesulfonamido)-;  $\text{CH}_3\text{CONHC}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_2)_2$ . m-Phenylenediamine, 4-acetamido-N,N'-bis(3, 4-dichlorophenylsulphonyl)-; bis-1, 2-dichlorobenzene-4-sulpho-1' acetylmino-2', 4'-phenylenediamide; m-phenylenediamine, N<sup>1</sup>, N<sup>2</sup>-bis(3,4-dichlorophenylsulfonyl), 6-acetylmino).  
T as mothproofing agent. 464P, 731P, 1176, 1179.
- 56-186-854-953-1011.  
Acetanilide, 3, 5-bis(3, 4-dichlorobenzenesulfonamido)-;  $\text{CH}_3\text{CONHC}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_2)_2$ . (m-Phenylenediamine-5-acetylmino-N,N'-bis(3, 4-dichlorophenylsulfonyl); bis-1,2-dichlorobenzol-4-sulfo-1'-acetylamido-2', 4'-phenylenediamide).  
T as mothproofing agent. 428P, 730P, 1175.
- 56-186-924-951-1011.  
Acetanilide, p-(1-naphthylsulfamyl)-;  $\text{CH}_3\text{COHN}\cdot\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_{10}\text{H}_7$ . (N'-Acetyl-N<sup>1</sup>-1-naphthylsulfanilamide).  
NT codling moth larvae. 1287.
- 56-186-952-1011.  
Acetanilide, p-(phenylsulfamyl)-;  $\text{CH}_3\text{COHN}\cdot\text{C}_6\text{H}_5\text{SO}_2\text{NHC}_6\text{H}_5$ . (N-Acetylsulfanilamide).  
NT codling moth larvae. 1287.
- 56-306-330-951-1021.  
Morpholine, 4-(2-nitro-p-toluenesulfonyl)-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{N}(\text{C}_6\text{H}_5\text{O})$ . (2-Nitro-p-toluenesulfonamorpholine).  
NT *Phlyctanis rubigalis*. 949.

- 56-206-230-951-1021.  
Morpholine, 4-(3-nitro-*p*-toluenesulfonyl)-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{N}(\text{C}_2\text{H}_5)_2$ . (*N*-(3-Nitro-*p*-tolylsulfonyl)-morpholine).  
ST codling moth larvae; NT as mothproofing agent. 239, 1287.
- 56-206-730-951-1021.  
Piperidine, 1-(3-nitrophenylsulfonyl)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NO}_2\text{SO}_2\text{NC}_4\text{H}_8$ . (3-Nitro-*p*-toluenesulfonylpiperidine).  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-206-924-951.  
Benzenesulfonamide, *N*-1-naphthyl-*m*-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4$ . (*m*-Nitro-*N*-1-naphthylbenzenesulfonamide).  
ST codling moth larvae; MT as mothproofing agent. 239, 1287.
- 56-206-924-951-1021.  
*p*-Toluenesulfonamide, *N*-1-naphthyl-3-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NHC}_6\text{H}_4$ .  
NT codling moth larvae and as mothproofing agent. 239, 1287.
- 56-206-951.  
Benzenesulfonamide, *m*-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NH}_2$ .  
ST codling moth larvae; MT as mothproofing agent. 239, 1287.
- 56-206-951-961-1021.  
*p*-Toluenesulfonamide, *N*-cyclohexyl-2-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NHC}_6\text{H}_{11}$ . (2-Nitro-*p*-toluenesulfonylcyclohexylamide).  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-206-951-1001-1021.  
*p*-Toluenesulfonamide, *N*-isobutyl-2-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NHC}_4\text{H}_9$ . (2-Nitro-*p*-toluene-*N*-isobutylsulfonamide).  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-206-951-1021.  
*p*-Toluenesulfonamide, 2-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NH}_2$ .  
NT *Phlyctaenia rubigalis* larvae; ST codling moth larvae. 949, 1287.
- 56-206-951-1021.  
*p*-Toluenesulfonamide, 3-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NH}_2$ . (3-Nitro-4-toluenesulfonamide).  
T *Cochliomyia americana* C. and P. at 0.17% and as mothproofing agent. 239, 944.
- 56-206-951-1021.  
*o*-Toluenesulfonamide, 4-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NH}_2$ .  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-206-951-1021.  
Benzenesulfonamide, *N*-methyl-*o*-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ . (Benzenesulfonamide, *N*-methyl-2-nitro; 2-nitrobenzenesulphomethylamide).  
T as mothproofing agent. 440P, 1179.
- 56-206-952.  
Benzenesulfonamide, 3-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ . (*m*-Nitro-*N*-phenylbenzenesulfonamide).  
MT as mothproofing agent; NT codling moth larvae. 239, 1287.
- 56-206-952-1021.  
*p*-Toluenesulfonamide, 2-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NHC}_6\text{H}_5$ .  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-206-952-1021.  
*p*-Toluenesulfonamide, 3-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{NHC}_6\text{H}_5$ . (3-Nitro-*N*-phenyl-*p*-toluenesulfonamide).  
NT codling moth larvae and as mothproofing agent. 239, 1287.
- 56-206-953-1021.  
*p*-Toluenesulfonamide, 2-nitro-*N*, *N*-diphenyl-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{NO}_2)\text{SO}_2\text{N}(\text{C}_6\text{H}_5)_2$ . (2-Nitro-*p*-toluenesulfonyldiphenylamide).  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-207-951-1021.  
*p*-Toluenesulfonamide, 2,6-dinitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{SO}_2\text{NH}_2$ .  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-208-551-953-1021.  
*p*-Toluenesulfonamide, 2'-hydroxy-2, 3', 5'-trinitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_3\text{SO}_2\text{NHC}_6\text{H}_4\text{OH}(\text{NO}_2)_2$ . (3-Nitro-*p*-toluene-*N*-(2-hydroxy-3,5-dinitrophenyl-sulfonamide).  
MT *Phlyctaenia rubigalis* larvae. 949.
- 56-230-941-951.  
Morpholine, 4-(*p*-bromophenylsulfonyl)-;  $\text{BrC}_6\text{H}_4\text{SO}_2\text{N}(\text{C}_2\text{H}_5)_2$ .
- NT codling moth larvae. 1287.
- 56-230-951-1021.  
Morpholine, 4-(*p*-tolylsulfonyl)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{N}(\text{C}_2\text{H}_5)_2$ .
- ST codling moth larvae. 1287.
- 56-258-582-852-952.  
1-Phenol-2-sulfonic acid, 4-chloro-6-(5-chloro-2-hydroxyphenylsulfonyl)-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3(\text{Cl})[\text{SO}_2\text{NHC}_6\text{H}_4(\text{Cl})\text{OH}]\text{SO}_3\text{H}$ . (1-Phenol, 4-chloro-2,6-disulpho-4'-chloro-1'-hydroxy-2'-anilide).  
T as mothproofing agent. 464P, 1176.
- 56-258-854-952.  
Benzenesulfonic acid, 2-chloro-5-(2, 4, 5-trichlorophenylsulfonyl)-;  $\text{ClC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_3(\text{Cl})_3$ . (Benzenesulphonanilide, 3, 4, 6-trichloro-4'-chloro-3'-sulphonic acid; 1, 2, 5-trichlorobenzol-4-sulfo-4'-chloro-1'-anilido-3'-sulfanilide).  
T as mothproofing agent. 428P, 730P, 1175.
- 56-258-854-953-1021.  
*o*-Toluenesulfonic acid, 3, 5-bis(3, 4-dichlorophenylsulfonyl)-;  $\text{HO}_2\text{C}(\text{CH}_3)\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_4\text{Cl}_2)_2$ . (*o*-Toluenesulphonic acid, 3, 5-diamino-*N*,*N'*-bis(3, 4-dichlorophenylsulfonyl)-; bis-1, 2-dichlorobenzene-4-sulpho-2', 4'-tolylendiamide-6-sulphonic acid).  
T as mothproofing agent. 428P, 464P, 731P, 1175, 1176, 1179.
- 56-258-854-954.  
3, 3'-Biphenyldisulfonic acid, 4, 4'-bis(3, 4-dichlorophenylsulfonyl)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{SO}_2\text{NHC}_6\text{H}_3(\text{SO}_2\text{H})\text{C}_6\text{H}_3(\text{SO}_2\text{H})\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_2$ . (3, 3'-Bensidine disulfonic acid, *N*,*N'*-bis(3, 4-dichlorophenylsulfonyl)-).  
T as mothproofing agent. 428P, 464P, 730P, 1175, 1176.
- 56-541-581-851-952-1022.  
Salicylic acid, 5-chloro-3-(methylphenylsulfonyl)-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4[\text{SO}_2\text{N}(\text{CH}_3)\text{C}_6\text{H}_5]\text{COOH}$ . (Salicylic acid, 5-chloro-*N*-methyl-3-sulphonanilido-; 5-chlorosalicylic acid-3-sulpho-*N*-methyl-anilide).  
T as mothproofing agent. 428P, 730P, 731P, 1175, 1179.
- 56-541-581-852-952-1021.  
Salicylic acid, 5-chloro-3-(*p*-chlorophenylsulfonyl)-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4(\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl})\text{COOH}$ . (Salicylic acid, 4', 5-dichloro-3-sulphonanilido-; 5-chlorosalicylic acid-3-sulpho-4'-chloroanilide).  
T as mothproofing agent. 428P, 730P, 731P, 1175, 1179.
- 56-541-581-852-952-1021.  
Salicylic acid, 5-chloro-3-(*o*-chlorophenylsulfonyl)-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4(\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl})\text{COOH}$ . (Salicylic acid, 2', 5-dichloro-3-sulphonanilido-; 5-chlorosalicylic acid-3-sulpho-3'-chloroanilide).  
T as mothproofing agent. 428P, 730P, 731P, 1175, 1179.
- 56-581-851-953.  
1-Phenol-2-sulfonamide, 4-chloro-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ ? (*o*-Phenolsulphonanilide, 4-chloro-; 4-chloro-1-phenol-2-sulfanilide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-581-851-953.  
1-Phenol-3, 5-disulfonamide, 4-chloro-;  $\text{Cl}(\text{OH})\text{C}_6\text{H}_3(\text{SO}_2\text{NHC}_6\text{H}_5)_2$ . (*m*-Benzenedisulphonanilide, 4-chloro-3-hydroxy). 32C, 1175.
- 56-581-851-953-1022.  
1-Phenol-2, 6-disulfonamide, 4-chloro-*N*,*N'*-dibenzyl-;  $\text{Cl}(\text{OH})\text{C}_6\text{H}_4(\text{SO}_2\text{NHC}_6\text{H}_5)_2$ . (*m*-Benzenedisulphonbenzylamide, 5-chloro-2-hydroxy; 4-chloro-1-phenol-2, 6-disulfo-bis-benzylamide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-581-852-924-951.  
1-Naphtholsulfonamide, 4, 4'-dichloro-;  $\text{HO}(\text{Cl})\text{C}_{10}\text{H}_7\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl}$ . (Naphthalenesulphon-4'-chloroanilide, 4-chloro-2-hydroxy-; 4-chloro-1-naphthol-sulpho-4'-chloroanilide).  
T as mothproofing agent. 464P, 731P, 1175, 1179.
- 56-581-852-953.  
1-Phenol-4-sulfonamide, 2, 4'-dichloro-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl}$ . (*p*-Phenolsulphonanilide, 2-chloro-4'-chloro-; 2-chloro-1-phenol-4-sulfo-4'-chloroanilide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-852-952.

1-Phenol-2-sulfonamide, 4, 4'-dichloro-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl}$ . (*o*-Phenolsulphonamide, 4-chloro-4'-chloro-; 4-chloro-1-phenol-2-sulfo-4'-chloranilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-852-952.

1-Phenol-2-sulfonamide, 4, 6-dichloro-;  $\text{HO}(\text{Cl})_2\text{C}_6\text{H}_3\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl}$ . (*o*-Phenolsulphonamide, 4, 6-dichloro-; 4, 6-dichloro-1-phenol-2-sulfanilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-852-953-1021.

2, 4-Toluenedisulfonamide, 4', 4''-dichloro-6-hydroxy-;  $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})(\text{SO}_2\text{NHC}_6\text{H}_4(\text{Cl}))_2$ . (*o*-Cresol-3, 5-bis(4'-chlorosulphonamide); 2-cresol-3, 5-disulpho-bis-4'-chloroanilide).

T as mothproofing agent. 464P, 731P, 1176, 1179.

## 56-581-852-953-1021.

2, 6-Toluenedisulfonamide, 4', 4''-dichloro-4-hydroxy-;  $\text{CH}_3(\text{OH})\text{C}_6\text{H}_3(\text{SO}_2\text{NHC}_6\text{H}_4(\text{Cl}))_2$ . (*m*-Benzenedisulphonamide, 5-hydroxy-2-methyl-bis-4'-chloro-; 4-cresol-3, 5-disulfo-bis-4'-chloranilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-853-952.

1-Phenol-4-sulfonamide, 2, 4', 6-trichloro-;  $\text{HO}(\text{Cl})_3\text{C}_6\text{H}_2\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl}$ . (*p*-Phenolsulphonamide, 2, 6-dichloro-4'-chloro-; 2, 6-dichloro-1-phenol-4-sulfo-4'-chloranilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-853-953.

1-Phenol-2, 4-disulfonamide, 4', 4'', 5-trichloro-;  $\text{Cl}(\text{OH})\text{C}_6\text{H}_3(\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl})_2$ . (*m*-Benzenedisulphonamide, 4-chloro-6-hydroxy-bis-4'-chloro-; 5-chloro-1-phenol-2, 4-disulfo-bis-4'-chloranilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-853-953.

1-Phenol-2, 6-disulfonamide, 4, 4', 4''-trichloro-;  $\text{Cl}(\text{OH})_2\text{C}_6\text{H}_3(\text{SO}_2\text{NHC}_6\text{H}_4\text{Cl})_2$ . (*m*-Benzenedisulphonamide, 5-chloro-2-hydroxy-bis-4'-chloro-; 4-chloro-1-phenol-2, 6-disulfo-bis-4'-chloranilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-581-854-953.

1-Phenol-4-sulfonamide, *N,N'*-*m*-phenylenebis[3, 5-dichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3(\text{OH})\text{Cl})_2$ ]. (*m*-Phenylenediamine, *N,N'*-bis(3, 5-dichloro-4-hydroxyphenylsulphonyl)-bis-2,6-dichlorophenol-4-sulpho-*m*-phenylenediamide).

T as mothproofing agent. 464P, 1176.

## 56-581-855-953.

1-Phenol-2-sulfonamide, 4, 6-dichloro-, 3'-(2, 4, 5-trichlorophenylsulphonamido)-;  $\text{C}_6\text{H}_4(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_3)\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_3(\text{OH})$ . (*m*-Phenylenediamine, *N*-(2, 4, 5-trichlorophenylsulphonyl)-*N'*-(3, 5-dichloro-2-hydroxyphenylsulphonyl)-; (1, 2, 5-trichlorobenzene-4-sulpho)-(4', 6'-dichloro-1'-phenol-2'-sulpho)-1'', 3''-phenylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-582-852-952-1011.

1-Phenol-2-sulfonamide, *N,N'*-ethylenebis[4-chloro-;  $[-\text{CH}_2\text{NHSO}_2\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2$ ]. (Ethylene diamine, *N,N'*-bis(5-chloro-2-hydroxyphenylsulphonyl)-; bis-4-chloro-1-phenol-2-sulphoethylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-582-852-954.

1-Phenol-2-sulfonamide, *N,N'*-*p*-biphenylenebis[4-chloro-;  $[-\text{C}_6\text{H}_4\text{NHSO}_2\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2$ ]. (Benzidine, *N,N'*-bis(5-chloro-2-hydroxyphenylsulphonyl)-; bis-4-chloro-1-phenol-2-sulphobenzidine).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-582-854-953.

1-Phenol-4-sulfonamide, *N,N'*-*m*-phenylenebis[2, 6-dichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3(\text{Cl})\text{OH})_2$ ]. (*m*-Phenylenediamine, *N,N'*-bis(3, 5-dichloro-4-hydroxyphenylsulphonyl)-bis-2, 6-dichlorophenol-4-sulfometa-phenylenediamide).

T as mothproofing agent. 428P, 730P, 731P, 1175, 1179.

## 56-583-853-953.

1-Phenol-2, 6-disulfonamide, 2', 2''-dihydroxy-4, 5', 5''-trichloro-;  $\text{Cl}(\text{OH})_3\text{C}_6\text{H}_2(\text{SO}_2\text{NHC}_6\text{H}_3(\text{Cl}))_2$ . (*m*-Benzenedisulphonamide, 5-chloro-2-hydroxy-bis-4'-chloro-2'-hydroxy-; 4-chloro-1-phenol-2, 6-disulfo-bis-4'-chloro-1'-oxy-2'-anilide).

T as mothproofing agent. 428P, 730P, 731P, 1175, 1179.

## 56-591-952-1021.

Benzenesulfonamide, *p*-benzyloxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (Benzenesulfonamide, *p*-phenylmethoxy-).

Fly spray. 112, 693P.

## 56-591-953-1021.

Benzenesulfonamide, *p*-benzyloxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ . (Benzenesulfonamide, *p*-phenylmethoxy-).

Fly spray. 112, 693P.

## 56-671-852-952.

Benzenesulfonamide, 3'-amino-2, 4-dichloro-;  $\text{H}_2\text{NC}_6\text{H}_4\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_2$ . (*m*-Phenylenediamine, *N*-2, 4-dichlorophenylsulphonyl-; 1, 3-dichlorobenzene-4-sulpho-1, 3-phenylenediamine).

T as mothproofing agent. 428P, 464P, 1175, 1179.

## 56-671-854-953.

Benzenesulfonamide, 3'-(3-amino-4-chlorophenylsulphonamido)-2, 4, 5-trichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}_2)\text{NHSO}_2\text{C}_6\text{H}_3(\text{Cl})\text{NH}_2$ . (*m*-Phenylenediamine, *N*-(2, 4, 5-trichlorophenylsulphonyl)-*N'*-(3-amino-4-chlorophenylsulphonyl)-; (1, 2, 5-trichlorobenzene-4-sulpho)-(4'-chloro-3'-amino-benzene-1'-sulpho)-1'', 3''-phenylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-671-951.

Sulfanilamide;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (*p*-Aminobenzenesulfonamide; *p*-anilinesulfonamide; prontosil album).

ST screwworms. 156, 790AP, 1287.

## 56-671-952-1021.

Sulfanilamide, *N*-benzyl-;  $\text{NH}_2\text{C}_6\text{H}_4\text{SO}_2\text{NHCH}_2\text{C}_6\text{H}_5$ .

NT codling moth larvae. 1287.

## 56-841-924-951.

Benzenesulfonamide, *p*-bromo-*N*-1-naphthyl-;  $\text{BrC}_{10}\text{H}_7\text{SO}_2\text{NHC}_6\text{H}_5$ .

T as mothproofing agent; ST codling moth larvae. 239.

## 56-841-951.

Benzenesulfonamide, *p*-bromo-;  $\text{BrC}_6\text{H}_4\text{SO}_2\text{NH}_2$ .

MT European corn borer, codling moth larvae, and as mothproofing agent. 239, 1123, 1287.

## 56-841-952.

Benzenesulfonamide, 4-bromo-;  $\text{BrC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ . (*p*-Bromobenzenesulfonamide).

MT as mothproofing agent; ST codling moth larvae. 239, 1287.

## 56-841-952-1021.

Benzenesulfonamide, 4-bromo-*N*-methyl-;  $\text{BrC}_6\text{H}_4\text{SO}_2\text{N}(\text{CH}_3)\text{C}_6\text{H}_5$ . (*p*-Bromo-*N*-methyl-*N*-phenylbenzenesulfonamide).

T as mothproofing agent; ST codling moth larvae. 440P, 1179, 1287.

## 56-841-953-1022.

Benzenesulfonamide, 4-bromo-*N,N*-dibenzyl-;  $\text{BrC}_6\text{H}_4\text{SO}_2\text{N}(\text{CH}_2\text{C}_6\text{H}_5)_2$ . (*p*-Bromo-*N,N*-dibenzylbenzenesulfonamide).

T as mothproofing agent; NT codling moth larvae. 239, 1287.

## 56-842-953.

Benzenesulfonamide, *N,N'*-*m*-phenylenebis[*p*-bromo-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_4\text{Br})_2$ ]. (*m*-Phenylenediamine, *N,N'*-bis(4-bromophenylsulphonyl)-; bis-4-bromo-benzenesulpho-1', 3'-phenylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

## 56-851-951.

Benzenesulfonamide, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{SO}_2\text{NH}_2$ .

T codling moth larvae, screwworms, and as mothproofing agent; ST corn borer. 440P, 944, 1120, 1179, 1287.

## 56-851-951-1021.

Benzenesulfonamide, *p*-chloro-*N*-methyl-;  $(\text{Cl})\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ . (Benzenesulfonamide, 4-chloro-*N*-methyl-; 4-chlorobenzenesulphonmethylanilide).

T as mothproofing agent. 446P, 1179.

56-851-951-1022.

*p*-Toluenesulfonamide, 2-chloro-*N*-methyl-; (Cl)(CH<sub>3</sub>)C<sub>6</sub>H<sub>4</sub>(SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>). (Benzenesulphonamide, 2-chloro-*N*, 4-dimethyl-; 2-chloro-4-methylbenzenesulphomethylamide).

T as mothproofing agent. 440P, 1179.

56-851-952.

Benzenesulfonamide, 4-chloro-; ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>. (Benzenesulphonamide, 4-chloro-).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-851-953-1021.

Benzenesulfonamide, 4-chloro-*N*-methyl-; ClC<sub>6</sub>H<sub>4</sub>-SO<sub>2</sub>N(CH<sub>3</sub>)C<sub>2</sub>H<sub>5</sub>. (4-Chlorobenzenesulphomethylphenylamide).

T as mothproofing agent. 440P, 1179.

56-853-961-952.

Benzenesulfonamide, 3, 4-dichloro 4'-fluoro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>F. (1, 2-Dichlorobenzol-4-sulfo-4'-fluoranilide).

T as mothproofing agent. 428P, 464P, 730P, 1175, 1176.

56-853-924-951.

1-Naphthol-2-sulfonamide, 4, 4'-dichloro-; ClC<sub>10</sub>H<sub>6</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>Cl. (1-Naphthol-2-sulphonamide, 4-chloro-4'-chloro-; 4-chloro-1-naphthol-sulfo-4'-chloroanilide).

T as mothproofing agent. 428P, 730P, 1175.<sup>1</sup>

56-853-951.

Benzenesulfonamide, 3, 4-dichloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NH<sub>2</sub>.

T as mothproofing agent. 440P, 1179.

56-853-951-1001.

Benzenesulfonamide, *N*-butyl-3, 4-dichloro-; (Cl)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(SO<sub>2</sub>NHC<sub>4</sub>H<sub>9</sub>). (3, 4-Dichlorobenzenesulphobutylamide).

T as mothproofing agent and 20% T *Phlyctaenia rubigalis* larvae. 440P, 446P, 949, 1179.

56-853-951-1002.

Benzenesulfonamide, *N,N*-dibutyl-3, 4-dichloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>N(C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>. (3, 4-Dichlorobenzenesulphodibutylamide).

T as mothproofing agent. 440P, 1179.

56-852-951-1012.

Benzenesulfonamide, 3, 4-dichloro-*N,N*-diethyl-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>N(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>. (3, 4-Dichlorobenzenesulphodiethylamide).

T as mothproofing agent. 440P, 1179.

56-852-951-1021.

Benzenesulfonamide, 3, 4-dichloro-*N*-methyl-; C<sub>6</sub>H<sub>3</sub>(Cl)<sub>2</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>. (3, 4-Dichlorobenzenesulphomethylamide).

T as mothproofing agent and 40% T *Phlyctaenia rubigalis*. 440P, 446P, 949, 1144, 1179.

56-852-951-1022.

Benzenesulfonamide, 3, 4-dichloro-*N,N*-dimethyl-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>. (3, 4-Dichlorobenzenesulphodimethylamide).

T as mothproofing agent. 440P, 1179.

56-852-952.

Benzenesulfonamide, 3, 4-dichloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>. (1, 2-Dichlorobenzol-4-sulfanilide).

T as mothproofing agent. 428P, 440P, 464P, 730P, 731P, 1175, 1176, 1179.

56-852-953.

Benzenesulfonamide, 3, 4'-dichloro-; ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>Cl. (3-Chlorobenzenesulpho-4'-chloroanilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-852-952-1021.

Benzenesulfonamide, 3, 4-dichloro-*N*-methyl-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>N(CH<sub>3</sub>)C<sub>2</sub>H<sub>5</sub>. (3, 4-Dichlorobenzenesulphomethylamide).

T as mothproofing agent. 440P, 1179.

56-852-952-1021.

*o*-Benzenesulfonotoluide, 3, 4-dichloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>CH<sub>3</sub>. (Benzenesulphonamide, 3, 4-dichloro-3'-methyl-; 3, 4-dichlorobenzenesulpho-(2-methylphenyl)-amide).

T as mothproofing agent. 440P, 1179.

56-852-953.

Benzenesulfonamide, *N,N'*-*m*-phenylenebis[4-chloro-; C<sub>6</sub>H<sub>3</sub>(NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>. (*m*-Phenylenediamine, *N,N'*-bis[4-chlorophenylsulphonyl]-; bis-4-chlorobenzenesulpho-4', 3'-phenylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-853-952.

Benzenesulfonamide, 2, 4, 5-trichloro-; Cl<sub>3</sub>C<sub>6</sub>H<sub>2</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>. (1, 2, 5-Trichlorobenzol-4-sulfanilide).

T as mothproofing agent. 428P, 464P, 730P, 1175, 1176.

56-853-953-1021.

*p*-Benzenesulfonotoluide, 3'-phenylsulfonyl-2, 4, 5-trichloro-; (Cl)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>(CH<sub>3</sub>)SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>. (Benzenesulpho, 1:3:5-trichloro-4-sulpho-4'-methyl-1'-anilido-3'-sulpho-1''-anilide).

T as mothproofing agent. 464P, 1176.

56-853-954.

Benzenesulfonamide, 4'-chloro-2, 5-bis[4-chlorophenylsulfonyl]-; C<sub>6</sub>H<sub>3</sub>(NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>Cl. (*p*-Phenylenediamine, 2-sulfo-(4'-chloro) anilide-*N,N'*-bis[4-chloro] phenylsulfonyl-; bis-4-chlorobenzol-sulfo-1', 4'-phenylenediamide-3'-sulfo-4''-chloro-1''-anilide). (This compound is apparently incorrectly named *p*-Phenylenediamine, *N,N'*-bis[4-chlorophenylsulfonyl]-2-(*p*-chlorophenylsulfonyl) in reference number 1179, page 59).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-853-955.

Bensidine, 3-amino-*N,N',N''*-tris[4-chlorophenylsulphonyl]-; ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>(NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl. (Tris-4-chlorobenzenesulpho-*m*-amido-bensidine).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-924-952.

Benzenesulfonamide, *N,N'*-2, 7-naphthylene-bis[3, 4-dichloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>. (2, 7-Naphthalenediamine, *N,N'*-bis[3, 4-dichlorophenylsulphonyl]-; bis-[1, 2-dichlorobenzenesulpho-4-sulpho-12', 7'-naphthylenediamide]).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-952-1011.

Benzenesulfonamide, *N,N'*-ethylenebis[2, 5-dichloro-; (-CH<sub>2</sub>NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>. (Ethylenediamine, *N,N'*-bis[2, 5-dichloro-phenylsulfonyl]-; bis-1, 4-dichlorobenzol-2-sulfoethylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-953.

*m*-Benzenedisulfonamide, 2, 4', 4'', 5-tetrachloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>Cl)<sub>2</sub>. (*m*-Benzenedisulphonamide, 2, 5-dichloro-bis-4'-chloro-; 1, 4-dichlorobenzol-2, 6-disulfo-bis-4'-chloroanilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-953.

*m*-Benzenedisulfonamide, 4, 4', 4'', 5-tetrachloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>Cl)<sub>2</sub>. (*m*-Benzenedisulphonamide, 4, 5-dichloro-bis-4'-chloro-; 1, 2-dichlorobenzol-4, 6-disulfo-bis-4'-chloroanilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-953.

*m*-Benzenedisulfonamide, 4, 4', 4'', 6-tetrachloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(SO<sub>2</sub>NHC<sub>2</sub>H<sub>5</sub>Cl)<sub>2</sub>. (*m*-Benzenedisulphonamide, 4, 6-dichloro-bis-4'-chloro-; 1, 3-dichlorobenzol-4, 6-disulfo-bis-4'-chloroanilide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-953.

Benzenesulfonamide, *N,N'*-*m*-phenylenebis[4-chloro-; C<sub>6</sub>H<sub>3</sub>(NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>. (*m*-Phenylenediamine, *N,N'*-bis[2, 4-dichlorophenylsulphonyl]-; bis-(1', 3'-dichlorobenzenesulpho-1, 3'-phenylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-953.

Benzenesulfonamide, *N,N'*-*m*-phenylenebis[2, 5-dichloro-; C<sub>6</sub>H<sub>3</sub>(NHSO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl)<sub>2</sub>. (*m*-Phenylenediamine, *N,N'*-bis[2, 5-dichlorophenylsulphonyl]-; bis-1, 4-dichlorobenzenesulpho-1', 3'-phenylenediamide).

T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.

56-854-953.

Benzenesulfonamide, *N,N'*-*m*-phenylenebis[3, 4-di-

- chloro-;  $\text{C}_6\text{H}_4(\text{NHSO}_2\text{C}_6\text{H}_4\text{Cl})_2$ . (m-Phenylenediamine,  $N,N'$ -bis(3, 4-dichlorophenylsulphonyl)-; bis-1, 2-dichlorobenzene-4-sulpho-1', 3'-phenylenediamide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-854-953.  
Benzenesulfonamide,  $N,N'$ -o-phenylenebis[3, 4-dichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl})_2$ . (o-Phenylenediamine,  $N,N'$ -bis(3, 4-dichlorophenylsulphonyl)-; bis-1, 2-dichlorobenzene-4-sulpho-1', 3'-phenylenediamide).  
T as mothproofing agent. 464P, 731P, 1176, 1179.
- 56-854-953.  
Benzenesulfonamide,  $N,N'$ -p-phenylenebis[3, 4-dichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl})_2$ . (p-Phenylenediamine,  $N,N'$ -bis(3, 4-dichlorophenylsulphonyl)-; bis-1, 2-dichlorobenzene-4-sulpho-1', 4'-phenylenediamide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-854-953.  
Benzenesulfonamide, 3'-phenylsulfamyl-2, 4, 4', 5-tetrachloro-;  $\text{Cl}_3\text{C}_6\text{H}_3\text{SO}_2\text{NHC}_6\text{H}_3(\text{Cl})\text{SO}_2\text{NHC}_6\text{H}_3$ . (Benzenesulphonanilide, 2, 4, 5, 4'-tetrachloro-3'-sulphonanilide-; 1, 2, 5-trichlorobenzene-4-sulpho-4'-chloro-1'-amido-3'-sulphonanilide).  
T as mothproofing agent. 731P, 1179.
- 56-854-953-1031.  
Benzenesulfonamide,  $N,N'$ -2, 4-tolylenebis[2, 5-dichloro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl})_2$ . (2, 4-Tolylene diamine,  $N,N'$ -bis(2, 5-dichlorophenylsulphonyl)-; bis-1, 4-dichlorobenzene-2-sulpho-2', 4'-tolylene diamide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-854-953-1021.  
Benzenesulfonamide, 3'-benzylsulfamyl-2, 4, 4', 5-tetrachloro-;  $(\text{Cl})_3\text{C}_6\text{H}_3\text{SO}_2\text{NHC}_6\text{H}_3(\text{Cl})\text{SO}_2\text{NHC}_6\text{H}_3$ . (Benzene, 1:2:5-trichloro-4-sulpho-4'-chloro-1'-anilide-3'-sulpho-phenylmethylamide).  
T as mothproofing agent. 464P, 1176.
- 56-854-954.  
Benzenesulfonamide,  $N,N'$ -p-biphenylenebis[2, 5-dichloro-;  $\text{Cl}_3\text{C}_6\text{H}_3\text{SO}_2\text{NHC}_6\text{H}_3\text{C}_6\text{H}_4\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl}$ . (Benzidine,  $N,N'$ -bis(2, 5-dichlorophenylsulfonyl)-; bis-1, 4-dichlorobenzol-2-sulfobenzamide).  
T as mothproofing agent. 428P, 464P, 730P, 1175, 1176.
- 56-855-953.  
Benzenesulfonamide, 3'-(3, 4-dichlorophenylsulfonyl)-2, 4, 5-trichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl})_2$ . (m-Phenylenediamine,  $N$ -(2, 4, 5-trichlorophenylsulphonyl)- $N'$ -(3, 4-dichlorophenylsulphonyl)-; (1, 2, 5-trichlorobenzene-4-sulpho)-(1', 2'-dichloro-benzene-4'-sulpho)-1'',3'',-phenylenediamide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-855-953.  
Benzenesulfonamide, 4-chloro- $N,N'$ -m-phenylenebis[3, 4-dichloro-;  $\text{ClC}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl})_2$ . (m-Phenylenediamine,  $N,N'$ -bis(3, 4-dichlorophenylsulphonyl)-4-chloro-; bis-1, 2-dichlorobenzene-4-sulpho-4'-chloro-1', 3'-phenylenediamine).  
T as mothproofing agent. 428P, 730P, 731P, 1175, 1179.
- 56-856-953.  
Benzenesulfonamide,  $N,N'$ -m-phenylenebis[2, 4, 5-trichloro-;  $\text{C}_6\text{H}_3(\text{NHSO}_2\text{C}_6\text{H}_3\text{Cl})_2$ . (m-Phenylenediamine,  $N,N'$ -bis(2, 4, 5-trichlorophenylsulphonyl)-; bis-1, 2, 5-trichlorobenzene-4-sulpho-1', 3'-phenylenediamide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-857-1027.  
Aglaminosulphonic acids, halogen-containing.  
T as mothproofing agents. 901P.
- 56-858.  
2-Naphthalenesulfonamide;  $\text{C}_{10}\text{H}_7\text{SO}_2\text{NH}_2$ .  
ST codling moth larvae. 1287.
- 56-858-951.  
2-Naphthalenesulfonamide;  $\text{C}_{10}\text{H}_7\text{SO}_2\text{NHC}_6\text{H}_5$ . (N-Phenyl-2-naphthalenesulfonamide).  
ST codling moth larvae. 1287.
- 56-924-953.  
2, 6-Naphthalenedisulphonanilide;  $\text{C}_{10}\text{H}_6(\text{SO}_2\text{NHC}_6\text{H}_5)_2$ . (Naphthalene-2, 6-disulfo-anilide).  
T as mothproofing agent. 428P, 464P, 730P, 731P, 1175, 1176, 1179.
- 56-924-1012.  
2-Naphthalenesulfonamide,  $N,N'$ -diethyl-;  $\text{C}_{10}\text{H}_7\text{SO}_2\text{N}(\text{C}_2\text{H}_5)_2$ .  
ST codling moth larvae. 1287.
- 56-951.  
Benzenesulfonamide;  $\text{C}_6\text{H}_5\text{SO}_2\text{NH}_2$ . (Benzenesulfonic amide).  
NT codling moth larvae. 915, 1432.
- 56-951-993-1021.  
p-Toluenesulfonamide,  $N$ -octyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_8\text{H}_{17}$ .  
NT Japanese beetle. 496, 1432.
- 56-951-1001-1021.  
p-Toluenesulfonamide,  $N$ -butyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_4\text{H}_9$ .  
MT as mothproofing agent; NT codling moth larvae. 239, 1287.
- 56-951-1011-1021.  
p-Toluenesulfonamide,  $N$ -ethyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_2\text{H}_5$ .  
MT as mothproofing agent; NT codling moth larvae. 239, 1287.
- 56-951-1021.  
p-Toluenesulfonamide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$ .  
MT as mothproofing agent; 31.2% T codling moth larvae; NT *Phlyctaenia rubigalis* larvae. 239, 915, 949, 1287, 1432.
- 56-951-1023.  
p-Toluenesulfonamide,  $N$ -methyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHCH}_3$ .  
MT as mothproofing agent; NT codling moth larvae. 239, 1287.
- 56-951-1023.  
p-Toluenesulfonamide,  $N,N$ -dimethyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{N}(\text{CH}_3)_2$ .  
T as mothproofing agent; NT codling moth larvae. 239, 1287.
- 56-952-1021.  
p-Toluenesulfonamide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ .  
MT as mothproofing agent; NT *Bombyx mori* larvae. 559, 944, 1287, 1432.
- 56-952-1022.  
p-Toluenesulfonamide,  $N$ -methyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{N}(\text{CH}_3)\text{C}_6\text{H}_5$ .  
MT as mothproofing agent; ST codling moth larvae. 239, 915, 1287, 1432.
- 56-952-1022.  
p-Toluenesulfonamide-p-toluide-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{CH}_3$ . (N-p-Tolyl-p-toluenesulfonamide).  
MT codling moth larvae; NT as mothproofing agent. 239, 1287, 1432.
- 56-952-1022.  
Di-p-toluenesulfonamide;  $\text{NH}(\text{SO}_2\text{C}_6\text{H}_4\text{CH}_3)_2$ .  
MT codling moth larvae. 915, 1432.
- 56-952-1023.  
p-Toluenesulfonamide-p-toluide,  $N$ -methyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{N}(\text{CH}_3)\text{C}_6\text{H}_4\text{CH}_3$ . (N-Methyl-N-p-tolyl-p-toluenesulfonamide).  
NT codling moth larvae and as mothproofing agent. 239, 915, 1287, 1432.
- 56-953-1021.  
p-Toluenesulfonamide,  $N$ -phenyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{N}(\text{C}_6\text{H}_5)_2$ . (p-Toluenesulfonodiphenylamide).  
NT *Phlyctaenia rubigalis* larvae. 949.
- 56-975.  
Sulphonamides, aryl-.  
T as mothproofing agent. 440P, 464P, 466P, 1179.
- 57-952-1022.  
Sulfamide,  $N,N'$ -di-p-tolyl-?  $(\text{CH}_3\text{C}_6\text{H}_4\text{NH})_2\text{SO}_2$ . (Sulfone,  $N,N'$ -bis(p-toluidine)-).  
MT codling moth larvae. 915, 1432.
65.  
Sulfamic acid derivatives;  $\text{RNHSO}_2\text{H}$ . 844P, 1432.
- 65-952-1114.  
Sulfamic acid,  $N,N$ -diphenyl-, barium salt?  $[(\text{C}_6\text{H}_5)_2\text{NHSO}_2]_2\text{Ba}$ . (Barium diphenylamine sulfonate).  
NT firebrat. 1145.
- 102-853-951-1011.  
Acetanilide, 2, 4, 6-N-tetrachloro-?  $\text{Cl}_3\text{C}_6\text{H}_2\text{N}(\text{Cl})\text{COCH}_3$ . (2, 4, 6-Trichlorophenyl acetyl chloramine).  
T tent caterpillar at 1.0%. 119.

- 102-982-1021.  
Formamide, *o*-chloro-*N,N*-diphenyl-;  $C_6H_5N(COCl)-Cl$ . (*N,N*-Diphenyl chloroformamide).  
HT greenhouse red spider at 4%; ST codling moth larvae at 4%. 915, 1481.
- 151-906-951.  
Benzenesulfonyl chloride, *m*-nitro-;  $C_6H_4(NO_2)-SO_2Cl$ .  
NT screwworms. 156.
- 151-207-951-1021.  
*p*-Toluenesulfonyl chloride, 2, 6-dinitro-;  $CH_3C_6H_3(NO_2)_2SO_2Cl$ .  
MT *Phlyctaenidia rubigalis* larvae. 949, 1144.
- 151-552-951-1000-1022.  
Phthalic acid, 4-chlorosulfonyl-, amyl ester;  $ClSO_2-C_6H_4(COOCH_2CH_2CH_2CH_2CH_3)_2$ ? (Phthalic acid, 4-chlorosulpho-, amyl ester).  
T as mothproofing agent. 550P, 1179, 1335P, 1386P.
- 151-841-951.  
Benzenesulfonyl chloride, *p*-bromo-;  $BrC_6H_4SO_2Cl$ . (*p*-Bromobenzenesulfochloride).  
ST codling moth larvae. 915.
- 151-910.  
Anthracenesulphonyl chloride, CU;  $C_{14}H_9SO_2Cl$ .  
T as mothproofing agent. 474P, 1176.
- 151-924.  
2-Naphthalenesulfonyl chloride;  $C_{10}H_7SO_2Cl$ . (Naphthalene- $\beta$ -sulfonyl chloride).  
T Japanese beetle; ST screwworms at 0.67%. 156, 494, 1178.
- 151-924.  
Naphthalenesulfonyl chloride, CU;  $C_{10}H_7SO_2Cl$ .  
T as mothproofing agent. 474P, 1176.
- 151-924.  
1, 5-Naphthalenedisulfonyl chloride;  $C_{10}H_6(SO_2Cl)_2$ .  
T as mothproofing agent. 474P, 1176.
- 151-924.  
2, 6-Naphthalenedisulfonyl chloride;  $C_{10}H_6(SO_2Cl)_2$ . (Naphthalene, 2,6-disulfochloride).  
NT culicine mosquito larvae. 172, 1178.
- 151-924.  
2, 7-Naphthalenedisulfonyl chloride;  $C_{10}H_6(SO_2Cl)_2$ .  
NT culicine mosquito larvae. 172, 1178.
- 151-951-1021.  
*p*-Toluenesulfonyl chloride;  $CH_3C_6H_4SO_2Cl$ . (*p*-Toluenesulfonyl chloride).  
HT *Plodia* larvae; T as mothproofing agent; NT *Sitophilus oryza*, *Sitophilus granarius*, *Tribolium*, and *P. rapae*. 474P, 635, 1042, 1176, 1178.
- 151-1001.  
1-Butanesulfonyl chloride;  $CH_3CH_2CH_2CH_2SO_2Cl$ .  
NT *Sitophilus oryza*. 1178, 1180.
- 151-1045.  
Sulfonylchlorides, CU.  
T as mothproofing agent. 474P, 1176.
- 152-924.  
1, 5-Naphthalenedisulfonyl fluoride;  $C_{10}H_6(SO_2F)_2$ .  
T as mothproofing agent. 475P, 1176.
- 152-951-1021.  
*p*-Toluenesulfonyl fluoride;  $CH_3C_6H_4SO_2F$ .  
T as mothproofing agent. 475P, 1176.
- 152-975.  
Aryl sulfonyl fluorides, CU;  $RSO_2F$ . (Fluorosulphonates, aryl-).  
T as mothproofing agent. 825P, 1175.
- 152-1021.  
Methane sulfonyl fluoride;  $H_3CSO_2F$ . 393P, 1432.
- 152-1027.  
Aliphatic sulfonyl fluorides, CU. 393P, 1432.
- 152-1045.  
Sulfonyl fluorides, CU. (Sulpho fluorides). 475P, 1176.
- 173-1022.  
Urea, guanyl-;  $H_2NC(=NH)NHCONH_2$ . (Dicyanodiamidine).  
NT codling moth. 915.
- 173-1022-1389.  
Urea, guanyl-, sulfate;  $H_2NC(=NH)NHCONH_2 \cdot H_2SO_4$ ? (Dicyanodiamidine sulfate).  
NT mosquito larvae and codling moth. 172, 915.
- 173-952-1021.  
Carbohydrazide, 1, 5-diphenyl-;  $(C_6H_5NHNH)_2CO$ . (1, 5-Diphenyl carbaside; *s*-diphenylcarbaside).  
NT screwworms. 156.
- 176-951-1021.  
Semicarbaside, 1-phenyl-;  $C_6H_5NHNHCONH_2$ . (1-Carbamyl-2-phenylhydrazine).  
ST *Bombus mori* larvae; NT *Culex quinquefasciatus* larvae. 157, 559.
- 176-952-1021.  
Semicarbaside, 1, 4-diphenyl-;  $C_6H_5NHNHCONHC_6H_5$ .  
HT *Lepidoptera*, *Coleoptera*, *Isoptera*, and *Orthoptera*; T corn borer, Southern beet webworm, *Culex quinquefasciatus*, and silkworm larvae; NT roaches, cabbage looper, cross-striped cabbage worm, and imported cabbage worm. 157, 513, 559, 587, 1312.
- 176-952-1021.  
Semicarbaside, 4, 4'-diphenyl-;  $(C_6H_5)_2NCONHNH_2$ .  
T as mothproofing agent. 239, 915.
- 176-952-1022.  
Semicarbaside, 1-phenyl-4-*o*-tolyl-;  $C_6H_5NHNHCONHC_6H_4CH_3$ .  
T European corn borer. 1122.
- 179-541-999-1021.  
Levulinic acid, semicarbasone;  $CH_3C(NNHCONH_2)-CH_2CH_2COOH$ .  
NT corn borer and as mothproofing agent. 239, 1120.
- 179-551-1001-1011-1021.  
Acetoacetic acid, ethyl ester, semicarbasone;  $CH_3C(NNHCONH_2)CH_2COOC_2H_5$ .  
NT corn borer and as mothproofing agent. 239, 1120.
- 179-571-952-1011-1021.  
Benzil monosemicarbasone;  $C_6H_5OOC(C_6H_5)NNHCONH_2$ .  
ST corn borer and as mothproofing agent. 239, 1120.
- 179-581-591-951-1023.  
Vanillin semicarbasone;  $CH_3OC_6H_4(OH)CHNNHCONH_2$ .  
NT corn borer and as mothproofing agent. 239, 1120.
- 179-581-951-1011-1021.  
Acetophenone, *p*-hydroxy-, semicarbasone;  $HOC_6H_4C(NNHCONH_2)CH_3$ .  
NT *Culex quinquefasciatus*. 157.
- 179-581-951-1022.  
Salicylaldehyde semicarbasone;  $HOC_6H_4CHNNHCONH_2$ .  
NT corn borer and as mothproofing agent. 239, 1120.
- 179-592-951-1023-1030.  
*o*-Veratraldehyde semicarbasone;  $(CH_3O)_2C_6H_3CHNNHCONH_2$ .  
NT European corn borer. 1122.
- 179-625-1022.  
2-Furaldehyde semicarbasone;  $(C_4H_3O)CHNNHCONH_2$ .  
ST codling moth larvae and as mothproofing agent. 239, 1285.
- 179-626-950-1022.  
Piperonal semicarbasone;  $(CH_3O)_2C_6H_3CHNNHCONH_2$ .  
NT corn borer and as mothproofing agent. 239, 1120.
- 179-671-952-1022.  
Benzophenone, *p*-amino-, semicarbasone;  $C_6H_5C(NNHCONH_2)C_6H_4NH_2$ .  
NT corn borer. 1120.
- 179-851-951-1011-1021.  
Acetophenone, *p*-chloro-, semicarbasone;  $ClC_6H_4C(CH_3)NNHCONH_2$ .  
T as mothproofing agent; MT corn borer and codling moth; NT screwworms. 239, 944, 1120, 1285.
- 179-851-951-1022.  
Benzaldehyde, *o*-chloro-, semicarbasone;  $ClC_6H_4CHNNHCONH_2$ .  
NT corn borer and as mothproofing agent. 239, 1120.
- 179-852-951-1011-1021.  
Acetophenone, 3, 4-dichloro-, semicarbasone;  $Cl_2C_6H_3C(CH_3)NNHCONH_2$ .  
ST corn borer and as mothproofing agent. 239, 1120.
- 179-951-1003-1021-1030.  
Cinnamaldehyde semicarbasone;  $C_6H_5CH=CHCHNNHCONH_2$ .  
NT *Cochliomyia americana* C and P and *Culex quinquefasciatus* larvae. 157, 944.
- 179-951-1011-1021.  
Acetophenone semicarbasone;  $C_6H_5C(NNHCONH_2)-CH_3$ .  
MT corn borer; ST as mothproofing agent. 239, 1120.

179-961-1011-1022.

Acetophenone, *p*-methyl-, semicarbasone;  $\text{CH}_3\text{C}_6\text{H}_4\text{-C}(\text{CH}_3)\text{NNHCONH}_2$ .MT corn borer; ST *Culex quinquefasciatus*; NT as mothproofing agent. 157, 239, 1120.

179-961-1022.

Benzaldehyde semicarbasone;  $\text{C}_6\text{H}_5\text{CH=NNHCONH}_2$ .T corn borer and codling moth larvae; ST as mothproofing agent; NT *Culex quinquefasciatus* larvae. 157, 239, 487, 1120, 1291.

179-962-1022.

Benzophenone semicarbasone;  $(\text{C}_6\text{H}_5)_2\text{C=NNHCONH}_2$ .

T as mothproofing agent; ST corn borer. 239, 1120.

179-961-1021.

Cyclohexanone semicarbasone;  $\text{C}_6\text{H}_{10}\text{=NNHCONH}_2$ .

NT corn borer. 1120.

179-961-1022.

Cyclohexanone, 2-methyl-, semicarbasone;  $\text{C}_6\text{H}_9\text{-(CH}_3\text{)=NNHCONH}_2$ .

NT European corn borer. 1122.

179-961-1022.

Cyclohexanone, 4-methyl-, semicarbasone;  $\text{C}_6\text{H}_9\text{-(CH}_3\text{)=NNHCONH}_2$ .

NT European corn borer. 1122.

179-962-1021.

Cyclopentanone semicarbasone;  $\text{C}_5\text{H}_8\text{(NNHCONH}_2\text{)}_2$ .

T screwworms; NT codling moth, corn borer, and as mothproofing agent. 239, 944, 1120, 1285.

179-962-1021.

4-Heptanone, 2, 6-dimethyl-, semicarbasone;  $[\text{CH}_3\text{-CH}(\text{CH}_3)\text{CH}_2]_2\text{C=NNHCONH}_2$ .

ST corn borer, mosquito larvae, and as mothproofing agent. 157, 239, 1120.

179-962-1021.

2-Octanone semicarbasone;  $\text{CH}_3(\text{CH}_2)_5\text{C}(\text{CH}_3)\text{NNHCONH}_2$ .

NT codling moth larvae, corn borer, and as mothproofing agent. 239, 1120, 1285.

179-962-1021.

2-Heptanone semicarbasone;  $\text{CH}_3(\text{CH}_2)_4\text{C}(\text{CH}_3)\text{NNHCONH}_2$ .

ST as mothproofing agent; NT corn borer. 239, 1120.

179-962-1021.

2-Pentanone, 2, 4-dimethyl-, semicarbasone;  $[(\text{CH}_3)_2\text{CH}]_2\text{C=NNHCONH}_2$ .

ST as mothproofing agent; NT corn borer. 239, 1120.

179-962-1021.

Butyraldehyde,  $\alpha$ -ethyl-, semicarbasone;  $(\text{C}_2\text{H}_5)_2\text{CH-CH=NNHCONH}_2$ .NT corn borer, *Culex quinquefasciatus*, and as mothproofing agent. 157, 239, 1120.

179-962-1021.

2-Pentanone, 4-methyl-, semicarbasone;  $(\text{CH}_3)_2\text{CH-CH}_2\text{C}(\text{CH}_3)\text{NNHCONH}_2$ . (4-Methyl-2-pentanone semicarbasone).

NT corn borer and as mothproofing agent. 239, 1120.

179-962-1022.

2, 5-Hexanedione disemicarbasone;  $[\text{CH}_3\text{C}(\text{NNHCONH}_2)\text{CH}_2]_2$ . (Acetylacetone disemicarbasone).NT *Culex quinquefasciatus* larvae, corn borer, and as mothproofing agent. 157, 239, 1120.

179-962-1021.

2-Pentanone semicarbasone;  $\text{CH}_3\text{C}(\text{NNHCONH}_2)\text{C}_4\text{H}_9$ . (Methylpropyl ketone semicarbasone).T *Cochliomyia americana* C and P at 0.17%; ST as mothproofing agent. 239, 944, 1120.

179-1001-1021.

2-Butanone semicarbasone;  $\text{C}_4\text{H}_8\text{C}(\text{NNHCONH}_2)_2$ . (Ethylmethyl ketone semicarbasone).T *Cochliomyia americana* C and F at 0.67%; ST corn borer and as mothproofing agent. 239, 944, 1120.

179-1001-1021-1030.

Crotonaldehyde semicarbasone;  $\text{CH}_3\text{CH=CHCH=NNHCONH}_2$ .T *Cochliomyia americana* C and P at 0.10%; ST as mothproofing agent; NT *Culex quinquefasciatus* and corn borer. 157, 239, 944, 1120.

179-1003-1021.

Acetone semicarbasone;  $(\text{CH}_3)_2\text{C=NNHCONH}_2$ . (2-Propanone semicarbasone).

T Southern beet webworm, Hawaiian beet webworm, melon worm, greenhouse leaf tier, diamondback

moth, and roaches; HT silkworms; MT moth and imported cabbage worm. 156, 586, 1291, 1312, 1328.

179-1044.

Semicarbasones, OU.

T Southern beet webworm, melon worm, and diamondback moth. 1312.

182-207-952.

Asoxybenzene, 4, 4'-dinitro-;  $(\text{O}_2\text{NC}_6\text{H}_4\text{N})_2\text{O}$ .

T screwworms; ST greenhouse red spider at 4%; NT bean aphid at 4%. 156, 1481.

182-542-952-1022.

Benzoic acid, *p,p'*-asoxylis-;  $\text{C}_6\text{H}_5\text{COOH}(\text{NON})\text{C}_6\text{H}_5\text{COOH}$ . (*p*-Asoxybenzoic acid).

ST screwworms at 0.67%. 156.

182-852-952.

Asoxybenzene, *p,p'*-dichloro-;  $\text{ClC}_6\text{H}_4(\text{NON})\text{C}_6\text{H}_4\text{Cl}$ .

NT mosquito larvae. 156, 487.

182-872-952.

Asoxybenzene, *p,p'*-diodo-;  $(\text{IC}_6\text{H}_4\text{N})_2\text{O}$ .

MT corn borer. 110, 1120, 1122.

182-924.

Naphthalene, 1,1'-asoxylid-;  $(\text{C}_{10}\text{H}_7\text{N})_2\text{O}$ .

NT southern army worm at 4%. 1481.

182-952.

Asoxybenzene;  $(\text{C}_6\text{H}_5\text{N})_2\text{O}$ . (Asoxybenzide).

T codling moth, southern army worm, and T screwworms at 0.03-0.06%; MT corn borer. 156, 915, 1120, 1481.

183-551-1001-1021.

Allophanic acid, butyl ester;  $\text{NH}_2\text{CONHCOOC}_4\text{H}_9$ .

NT mosquito larvae. 487.

183-551-1003-1021.

Allophanic acid, isopropyl ester;  $\text{NH}_2\text{CONHCOOC}_3\text{H}_7$ . (Isopropyl allophanate).

HT codling moth larvae. 1291.

183-551-1011-1022.

Allophanic acid, ethyl ester;  $\text{NH}_2\text{CONHCOOC}_2\text{H}_5$ . (Ethyl allophanate).

HT codling moth larvae. 1291.

183-571-588-742-1021-1100.

Ammonium allantoinate;  $\text{C}_4\text{H}_8\text{N}_4\text{O}_3\text{NH}_4$ . 1188P.

183-572-742-1021.

Allantoin;  $(\text{O})_2\text{C}(\text{C}_2\text{H}_5\text{N}_2)\text{NHCONH}_2$ .

NT codling moth larvae. 915.

183-572-742-1021-1100.

Ammonium allantoinate—see 183-571-588-742-1021-1100.

183-591-951-1011-1021.

Dulcin;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NHCONH}_2$ . (*p*-Phenetylurea; *p*-ethoxyphenylurea).

T screwworms at 0.33-0.67%. 156.

183-592-952-1012-1021.

Urea, di-*p*-phenetyl-;  $(\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH})_2\text{C=O}$ .NT *Bombyx mori* larvae. 559.

183-951-1021.

Urea, phenyl-;  $\text{C}_6\text{H}_5\text{HNCONH}_2$ .

T screwworms; NT codling moth and as mothproofing agent. 156, 915, 985, 1176.

183-951-1021-1213.

Urea, phenylseleno-, CU.

T as mothproofing agent. 399P, 429P, 679P, 1176.

183-952-1021.

Carbanilide;  $(\text{C}_6\text{H}_5\text{NH})_2\text{CO}$ . (*N,N'*-Diphenylurea).

NT codling moth and as mothproofing agent. 239, 915.

183-952-1023.

Carbanilide, *N,N'*-dimethyl-;  $[\text{C}_6\text{H}_5\text{N}(\text{CH}_3)]_2\text{C=O}$ . (*N,N'*-Dimethyl, *N,N'*-diphenylurea).NT *Bombyx mori* larvae, Colorado potato beetle, and Mexican bean beetle. 559, 806.

183-989-1021.

Urea, 1-dodecyl-;  $\text{C}_{12}\text{H}_{25}\text{NHCONH}_2$ .

Fly spray. 107P, 112, 563P.

183-1003-1021-1030.

Urea, allyl-;  $\text{H}_2\text{NCONHCH}_2\text{CH=CH}_2$ .

ST codling moth; NT clothes moths. 915, 985, 1176.

183-1021.

Urea;  $\text{NH}_2\text{CONH}_2$ . (Carbamide).ST *Lucilia sericata* larvae; NT as mothproofing agent. 156, 723, 985, 1176.

184-186-206-561-952-1011-1023.

*o*-Acetotoluidide, *e*-(4-methoxy-2-nitrophenylazo)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NEOOCCH}_3\text{N}(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{NO}_2)\text{OCH}_3$ . (*o*-Nitro-*p*-anisylazo)-*o*-acetotoluidide). (This com-



- pound was given the formula  $C_{15}H_{15}N_4O_8$ . This does not agree with the name. Assuming that the latter is correct, the formula should be  $C_{17}H_{15}N_4O_8$ .
- NT European corn borer. 1120.
- 184-206-951-1021.  
Benzoic acid, m-nitro-, hydrazide;  $NH_2NHCOC_6H_4NO_2$ . (m-Nitrobenzohydrazide).  
ST screwworms at 0.67%. 156.
- 184-206-951-1021.  
Benzoic acid, o-nitro-, hydrazide;  $NH_2NHCOC_6H_4NO_2$ . (o-Nitrobenzohydrazide).  
ST screwworms at 0.67%. 156.
- 184-206-951-1021.  
Benzoic acid, p-nitro-, hydrazide;  $NO_2C_6H_4CONHNH_2$ . (p-Nitrobenzohydrazide).  
NT screwworms. 156.
- 184-951-1011.  
Acetic acid, phenylhydrazide;  $CH_3CONHNHC_6H_5$ . (Acetyl phenylhydrazine).  
T screwworms. 156.
- 184-952-1011-1021.  
Acetic acid, 2-benzylidene-1-phenylhydrazide;  $C_6H_5CH:NN(COCH_3)C_6H_5$ ? (Benzacetylalphenylhydrazone; benzylidenephénylacetylhydrazone).  
T as mothproofing agent. 873P, 1176.
- 184-953-1022.  
Benzoic acid, 2-benzylidene-1-phenylhydrazide;  $C_6H_5CH:NN(COC_6H_5)C_6H_5$ . (Benzalbenzophénylhydrazone; benzylidenephénylbenzohydrazone).  
T as mothproofing agent. 813P, 1176.
- 185-206-951-1021.  
Benzamide, p-nitro-;  $NO_2C_6H_4CONH_2$ .  
NT screwworms. 156.
- 185-250-991-1022.  
Decylxanthic acid, anhydride with carbamic acid;  $C_{10}H_{21}OCSSCONH_2$  (Amide of decylxanthic formic acid). 1472P.
- 185-440-951-950-951-1021.  
Phenothiazine, 6-(o-chlorophenylcarbonyl)-;  $(C_{12}H_8NS)CONHC_6H_4Cl$ . (Phenothiazine-6-carboxylic acid o-chlorophenylamide).  
MT mosquito larvae. 487.
- 185-440-950-951-1021.  
Phenothiazine, 6-(phenylcarbonyl)-;  $(C_{12}H_8NS)CONHC_6H_5$ . (Phenothiazine-6-carboxylic acid phenylamide).  
NT mosquito larvae. 487.
- 185-440-950-999-1021.  
Phenothiazine, 6-amyloxy-;  $(C_{12}H_8NS)CONHC_6H_5$ . (Phenothiazine-6-carboxylic acid amyloxyamide).  
HT mosquito larvae. 487.
- 185-440-950-1021.  
Phenothiazine, 6-carbamyl-;  $(C_{12}H_8NS)CONHC_6H_5$ . (Phenothiazine-6-carboxylic acid amide).  
MT mosquito larvae. 487.
- 185-541-671-1001.  
Asparagine;  $H_2NCOCH(NH_2)CH_2COOH$ .  
NT codling moth larvae. 915.
- 185-591-952-1022.  
Benzamide, o-benzoyloxy-;  $C_6H_5CH_2OC_6H_4CONH_2$ . (Benzamide, o-phenylmethoxy-).  
Fly spray. 112, 693P.
- 185-625-1003-1030.  
2-Furanylacrylamide;  $(C_4H_5O)CH:CHCONH_2$ .  
HT *Culex quinquefasciatus*; T several species of insects and T screwworm larvae at 0.05%; ST greenhouse red spider; NT bean aphid. 109, 157, 944, 1312, 1481.
- 185-625-1021.  
2-Furamide;  $(C_4H_5O)CONH_2$ . (Pyromucamide).  
T codling moth and mosquito larvae. 487, 1286, 1291.
- 185-851-1011.  
Acetamide, α-chloro-;  $ClCH_2CONH_2$ . (Chloroacetamide).  
T *Lucilia cuprina* larvae at 0.1%. 849, 1144.
- 185-951-1021.  
Benzamide;  $C_6H_5CONH_2$ . (Benzencarbonamide; benzoic amide).  
MT codling moth larvae; T screwworms; NT P. rapae. 156, 635, 915, 1180, 1286, 1291.
- 185-951-1022.  
Phthalimide;  $C_6H_4(CONH_2)_2$ .  
NT European corn borer. 1123.
- 185-985.  
Palmitamide;  $CH_3(CH_2)_{14}CONH_2$ . (Hexadecanamide; palmitic amide).  
ST codling moth larvae. 1286.
- 185-989.  
Lauramide;  $CH_3(CH_2)_{10}CONH_2$ .  
ST codling moth larvae. 1286.
- 185-999.  
n-Valeramide;  $CH_3(CH_2)_4CONH_2$ .  
ST codling moth larvae. 915.
- 185-1003.  
Malonamide;  $CH_3(CONH_2)_2$ .  
NT codling moth larvae. 915.
- 185-1003.  
Propionamide;  $C_2H_5CONH_2$ . (Propanamide; propionic acid amide).  
ST codling moth larvae. 1286.
- 185-1011.  
Oxamide;  $(CONH_2)_2$ .  
NT *Bombyx mori*, codling moth larvae, and European corn borer. 559, 915, 1122.
- 185-1011.  
Acetamide;  $CH_3CONH_2$ . (Ethanamide).  
T *Lucilia sericata* larvae; ST codling moth larvae; NT *Tineola bisellialis*, *Astagmus piceus*, and as mothproofing agent. 268, 723, 739, 915, 1176, 1286.
- 185-1021.  
Formamide;  $HOCONH_2$ . (Methanamide).  
T *Lucilia cuprina* larvae; ST codling moth larvae. 849, 1153, 1286.
- 186-190-851-951-1011.  
Acetanilide, p-chloro-α-isomitoso-;  $ClC_6H_4NHCOCH_2NOH$ . (p-Chloro-α-isomitosoacetanilide).  
NT European corn borer. 1122.
- 186-206-871-665-952-1001-1021.  
Acetoacetanilide, α-(o-nitro-p-tolyliso)-;  $C_6H_5NHCOCH(N:NC_6H_4(CH_3)NO_2)COCH_3$ .  
NT European corn borer. 1120.
- 186-206-891-951-1011-1021.  
p-Acetaniside, 2-nitro-;  $CH_3CONHC_6H_4(NO_2)OCH_3$ . (3-Nitro-4-acetylaminobenzoic acid).  
NT screwworms. 156.
- 186-206-891-951-1012.  
p-Acetophenetide, 3-nitro-;  $CH_3CONHC_6H_4(NO_2)OC_6H_5$ . (Phenacetin, 3-nitro-).  
T as mothproofing agent. 338P, 1176.
- 186-206-851-951-1011.  
Acetanilide, 2-chloro-4-nitro-;  $CH_3CONHC_6H_4(Cl)NO_2$ .  
MT codling moth at 4%; NT bean aphid at 4%. 1481.
- 186-206-851-951-1011.  
Acetanilide, 4-chloro-2-nitro-;  $CH_3CONHC_6H_4(Cl)NO_2$ .  
HT greenhouse red spider at 4%. 1481.
- 186-206-951-1011.  
Acetanilide, m-nitro-;  $CH_3CONHC_6H_4NO_2$ .  
T screwworms at 0.10-0.17% and T greenhouse red spider and codling moth at 4%; NT bean aphid at 4%. 156, 1481.
- 186-206-951-1011.  
Acetanilide, o-nitro-;  $CH_3CONHC_6H_4NO_2$ .  
T greenhouse red spider; NT screwworms. 156, 1481.
- 186-206-951-1011.  
Acetanilide, p-nitro-;  $CH_3CONHC_6H_4NO_2$ .  
T codling moth and greenhouse red spider; ST mosquito larvae and ST screwworms at 0.67%. 156, 157, 915, 1481.
- 186-206-951-1011-1021.  
Acetanilide, p-(nitromethyl)-;  $CH_3CONHC_6H_4CH_2NO_2$ .  
T screwworms at 0.05-0.08%. 156.
- 186-206-951-1011-1021.  
p-Acetotoluide, 2-nitro-;  $CH_3CONHC_6H_4(CH_3)NO_2$ . (3-Nitro-4-acetaminotoluene).  
ST greenhouse red spider at 4%. 1481.
- 186-206-951-1012.  
Acetanilide, p-(2-nitroethyl)-;  $CH_3CONHC_6H_4CH_2CH_2NO_2$ . (p-Nitroethylacetanilide).  
T screwworms at 0.05-0.08%. 156.
- 186-207-851-951-927.  
Caprosamide, 3, 5-dinitro-2-hydroxy-;  $C_6H_3OH(NO_2)_2NHCOC_6H_{11}$ . (N-Caproylpicramic acid).  
MT *Phlyctocania rubiginosa* larvae. 949, 1144.



186-307-881-983-1031.

Benzamide, 2, 8-dinitro-2-hydroxy-;  $C_6H_3OH(NO_2)_2NHCOCH_3$ . (*N*-Benzoylpicramis acid).

NT *Philocenae rubiginis* larvae. 949.

186-307-983-1011.

Oxamide, 2, 2'-dinitro-;  $(-CONHC_6H_4NO_2)_2$ . (Oxalic acid, bis-(2-nitro anilide)).

ST greenhouse red spider at 4%; NT southern army worm and bean aphid at 4%. 1481.

186-380-951-1023.

Eleoxyzanthic acid, anhydride with carbanilic acid;  $C_{10}H_8O_8CONHC_6H_5$ . (Anilide of eleoxyzanthic formic acid). 1472P.

186-380-951-989-1023.

Dodecylxanthic acid, anhydride with carbanilic acid;  $C_{12}H_{25}O_8CONHC_6H_5$ . (Anilide of dodecylxanthic formic acid). 1472P.

186-380-989-1023.

Methylxanthic acid, anhydride with dodecylcarbamie acid;  $CH_3O_8CONHC_{12}H_{25}$ . (*N*-Dodecylamide of methylxanthic formic acid). 1472P.

186-388-581-951-953-1023.

Chresotamide, chlorosulfo-, OU;  $C_6H_5NHCOCH(OH)(Cl)(CH_2SO_3H)$ . (Chlorochresotinic acid anilide sulphonic acid).

T as mothproofing agent. 394P, 395P, 1175, 1176.

186-258-581-853-953-1021.

1-Phenol-2-sulfonic acid, 4-chloro-6-(*o*-chlorophenyl-carbamyl)-;  $Cl(OH)C_6H_3(SO_3H)CONHC_6H_4Cl$ . (Salicylic acid, 5-chloro-3-sulpho-2'-chloroanilide).

T as mothproofing agent. 464P, 1176.

186-258-581-853-953-1031.

1-Phenol-2-sulfonic acid, 4-chloro-6-(*p*-chlorophenyl-carbamyl)-;  $Cl(OH)C_6H_3(SO_3H)CONHC_6H_4Cl$ . (Salicylic acid, 5-chloro-3-sulpho-4'-chloroanilide).

T as mothproofing agent. 464P, 1176.

186-376-591-851-951-1011-1021.

Urea, 1-(*p*-chlorophenoxyacetyl)-2-thio-;  $ClC_6H_4OCH_2CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 427P, 1175, 1239P.

186-376-833-951-1022.

Urea, 1-dichlorobenzoyl-2-thio-, OU.  $Cl_2C_6H_4CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 427P, 1175, 1239P.

186-376-833-952-1022.

Urea, 1-dichlorobenzoyl-3-phenyl-2-thio-, OU;  $Cl_2C_6H_3CONHC(S)NHCH_2C_6H_5$ ? (Urea, phenyl dichlorobenzoylthio-; urea,  $\alpha$ -dichlorobenzoyl- $\beta$ -phenylthio-).

T as mothproofing agent. 406P, 427P, 1175, 1179, 1240P.

186-376-951-983-1021-1030.

Urea, 1-oleyl-3-phenyl-2-thio-;  $C_{17}H_{35}CONHC(S)NHCH_2C_6H_5$ ? (Urea, phenyl-oleylthio-; urea,  $\alpha$ -oleyl- $\beta$ -phenylthio-).

T as mothproofing agent. 406P, 427P, 1175, 1179, 1240P.

186-376-951-997-1021.

Urea, 1-caproyl-3-phenyl-2-thio-;  $CH_3(CH_2)_4CONHC(S)NHCH_2C_6H_5$ . (Urea,  $\alpha$ -caproyl- $\beta$ -phenylthio-).

T as mothproofing agent. 406P, 427P, 1175, 1179, 1239P, 1240P.

186-376-951-999-1021.

Urea, 1-phenyl-2-thio-3-valeryl-;  $C_6H_5NHC(S)NHCOCH_2CH_3$ ? (Urea, phenylvalerylthio-).

T as mothproofing agent. 406P, 427P, 437P, 1175, 1179, 1239P, 1240P.

186-376-951-1011-1021.

Urea, 1-acetyl-3-phenyl-2-thio-;  $CH_3CONHC(S)NHCH_2C_6H_5$ . (Urea, phenylacetylthio-).

T as mothproofing agent. 406P, 416P, 427P, 437P, 1175, 1179, 1239P.

186-376-951-1022.

Urea, 1-benzoyl-2-thio-;  $C_6H_5CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 427P, 1175, 1239P.

186-376-952-1022.

Urea, 1-benzoyl-3-phenyl-2-thio-;  $C_6H_5CONHC(S)NHCH_2C_6H_5$ . (Urea, phenylbenzoylthio-).

T as mothproofing agent. 406P, 427P, 1175, 1179, 1240P.

186-376-951-997-1021.

Urea, 1-caproyl-3-cyclohexyl-2-thio-;  $CH_3(CH_2)_4CONHC(S)NHCH_2C_6H_{11}$ . (Urea,  $\alpha$ -caproyl- $\beta$ -cyclohexylthio-).

T as mothproofing agent. 1179, 1240P.

186-376-951-1031.

Urea, 1-hexahydrobenzoyl-2-thio-;  $C_6H_{11}CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 437P, 1175, 1239P.

186-376-983-1021.

Urea, 1-oleyl-2-thio-;  $C_{17}H_{35}CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 437P, 1175, 1239P.

186-376-983-1031.

Urea, 1-stearyl-2-thio-;  $C_{17}H_{35}CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 437P, 1175, 1239P.

186-376-999-1021.

Urea, 1-valeryl-2-thio-;  $C_5H_9CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 437P, 1175, 1239P.

186-376-1001-1021-1030.

Urea, 1-crotyl-2-thio-;  $NH_2C(S)NHCOCH_2CH=CH_2$ . (Crotyl thiourea).

NT Colorado potato beetle and Mexican bean beetle. 606, 1433.

186-376-1003-1011-1021-1030.

Urea, 1-acetyl-3-allyl-2-thio-;  $CH_3CONHC(S)NHCH_2CH=CH_2$ .

T as mothproofing agent. 416P, 424P, 683P, 1175.

186-376-1011-1021.

Urea, 1-acetyl-2-thio-;  $CH_3CONHC(S)NH_2$ .

T as mothproofing agent. 406P, 437P, 1175, 1239P.

186-401-591-696-851-953-1012-1023-1291.

Ammonium chloride, [*p*-(*p*-chlorophenoxy)-phenyl-carbamylmethyl]dimethyl(2-thiocyanatoethyl)-;  $ClC_6H_4OC_6H_4NHCOCH_2N(CH_3)_2(Cl)CH_2CH_2SCN$ .

T as mothproofing agent. 529P.

186-460-591-950-993-1011.

Benzothiazole, 2-caprylamido-6-ethoxy-;  $C_8H_5O(C_7H_5SN)NHCOCH_2CH_3$ . (5-Ethoxybenzthiazyl-1-amide of octanoic acid).

Fly spray. 112, 1224P.

186-541-583-904-999-1011-1022-1218.

Glycocholic acid, sodium salt;  $C_{24}H_{45}O_4NHCH_2COONa$ .

T as mothproofing agent. 585P, 1179.

186-541-730-1022-1027.

Cinchomeronamide, *N*-alkyl-;  $C_8H_9N(CONHR)COOH$ . (3, 4-Pyridinedicarboxylic acid amide). 771AP.

186-541-730-1022-1027.

Lutidinamide, *N*-alkyl-;  $C_6H_5N(CONHR)COOH$ . (Lutidinic acid amide). 771AP.

186-541-730-1022-1027.

Quinolinamide, *N*-alkyl-;  $C_8H_5N(CONHR)COOH$ . (Quinolinic acid amide). 771AP.

186-541-951-1011.

Oxanilic acid;  $C_6H_5NHCOCOOH$ .

NT codling moth. 915.

186-541-951-1011-1021.

Hippuric acid;  $C_6H_5CONHCH_2COOH$ . (Benzaminoacetic acid; *N*-benzoylglycine; benzamidoacetic acid).

ST Colorado potato beetle and Mexican bean beetle. 606, 1012.

186-541-951-1011-1021.

Anthranilic acid, *N*-acetyl-;  $CH_3CONHC_6H_4COOH$ . (Acetyl *o*-aminobenzoic acid; *o*-acetamidobenzoic acid).

NT screwworms. 156.

186-541-951-1011-1021.

*p*-Aminobenzoic acid, *N*-acetyl-;  $CH_3CONHC_6H_4COOH$ .

NT codling moth. 915.

186-542-730-1023-1027.

Berberonamide, *N*-alkyl-;  $(HOOC)_2C_6H_3NCONHR$ . 771AP.

186-551-861-990-1011-1021.

Glycine, *N*-fluorobenzoyl-, methyl ester;  $C_6H_5FCONECH_2COOCH_3$ . (Monofluorobenzoyl acid-methylglycinate). 345P.

186-551-951-1012.

Oxanilic acid, ethyl ester;  $C_6H_5NHCOCOOCC_2H_5$ . (Ethyl oxanilate).

NT codling moth. 915.

186-571-851-951-1001.

Acetoacetamide, 2-chloro-;  $ClC_6H_4NHCOCH_2COCH_3$ . (Acetoacet-2-chloroanilide).

ST screwworms at 0.67%. 156.

186-571-853-951-1001.

Acetoacetamide, 2, 5-dichloro-;  $Cl_2C_6H_3NHCOCH_2COCH_3$ . (Acetoacet-2, 5-dichloroanilide).

ST screwworms at 0.67%. 156.

- 186-571-951-1001.  
Acetoacetanilide;  $\text{CH}_3\text{COCH}_2\text{CONHC}_6\text{H}_5$ . ( $\beta$ -Keto-butyranyl;  $\alpha$ -acetylacetanilide).  
MT codling moth larvae; ST screwworms at 0.67%. 156, 915, 1291.
- 186-581-951-1011.  
Acetanilide,  $o$ -hydroxy;  $\text{HOC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetyl- $o$ -aminophenol).  
NT *Epilachna borealis*. 1008.
- 186-591-951-1011.  
Acetamide,  $\alpha$ -phenoxy-;  $\text{H}_2\text{NCOCH}_2\text{OC}_6\text{H}_5$ . (Phenoxy-acetamide).  
T screwworms at 0.33-0.67%. 156.
- 186-591-951-1011-1021.  
 $m$ -Acetanilide;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetyl  $m$ -anisidine).  
NT *Bombyx mori* larvae. 559.
- 186-591-951-1011-1021.  
 $o$ -Acetanilide;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetyl  $o$ -anisidine).  
T Screwworms at 0.33-0.67%. 156.
- 186-591-951-1011-1021.  
 $p$ -Acetanilide;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetyl  $p$ -anisidine).  
T screwworms at 0.17-0.33%; NT silkworm and codling moth larvae. 156, 559, 915.
- 186-591-951-1012.  
 $m$ -Acetophenetide;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (Acetyl  $m$ -phenetidine).  
NT *Bombyx mori* larvae. 559.
- 186-591-951-1012.  
 $o$ -Acetophenetide;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetyl  $o$ -phenetidine).  
ST screwworms at 0.67%. 156.
- 186-591-951-1012.  
Phenacetin;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{OC}_6\text{H}_5$ . ( $p$ -Acetophenetidine;  $p$ -acetamidophenetol;  $p$ -acetophenetide; acetyl- $p$ -phenetidine; ethoxy-acetaminophenol; oxyethyl-acetanilide).  
T codling moth, screwworms, and as mothproofing agent (333P); NT as mothproofing agent (739). 156, 333P, 739, 915, 1176, 1291.
- 186-591-952-988.  
Tridecananilide,  $p$ -benzyloxy-;  $\text{C}_{13}\text{H}_{27}\text{CH}_2\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Tridecanamide,  $N$ -(4-phenylmethoxyphenyl)-).  
Fly spray. 112, 1032P.
- 186-591-952-1001-1011-1021.  
Acetanilide, 5-*tert*-butyl-2-benzyloxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetamide,  $N$ -(2-phenylmethoxy-5-*tert*-butylphenyl)-;  $p$ -*tertiary*-butyl- $o$ -acetylamino phenyl benzyl ether).  
Fly spray. 112, 693P, 696P.
- 186-591-952-1011-1021.  
Acetanilide,  $p$ -benzyloxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetamide,  $p$ -(phenylmethoxy) phenyl-;  $p$ -acetylamino phenyl benzyl ether).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 186-591-952-1011-1021.  
Acetanilide, benzyloxy-, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Acetamide, phenylmethoxyphenyl-; acetylamino phenyl benzyl ether).  
Fly spray. 112, 1032P.
- 186-591-953-1022.  
Benzanilide, 2-benzyloxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CONHC}_6\text{H}_5$ . (Benzanilide,  $o$ -phenylmethoxy-).  
Fly spray. 112, 693P.
- 186-591-953-1022.  
Benzanilide, 4'-benzyloxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NHCOCH}_3$ . (Benzamide,  $N$ -( $p$ -phenylmethoxyphenyl)-).  
Fly spray. 112, 696P.
- 186-625-912-1021.  
2-Furamide,  $N$ -2-fluorenyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{H}_2$ . ( $N$ -2-Fluoryl-2-furamide).  
ST codling moth larvae. 1286.
- 186-625-924-1021.  
2-Furamide,  $N$ -1-naphthyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_{10}\text{H}_7$ .  
ST codling moth larvae. 1286.
- 186-625-924-1021.  
2-Furamide,  $N$ -2-naphthyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_{10}\text{H}_7$ .  
ST codling moth larvae. 1286.
- 186-625-951-1021.  
2-Furamide;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_5$ .  
ST codling moth larvae. 1286.
- 186-625-951-1022.  
2-Furamide,  $N$ -benzyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{H}_2$ . ( $N$ -Benzylpyromucamide).  
T *Cochliomyia americana* C and P at 0.08%; MT *Culex quinquefasciatus* larvae; ST codling moth larvae. 157, 944, 1286.
- 186-625-951-1022.  
2-Furamide,  $N$ - $m$ -tolyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{CH}_3$ . ( $N$ - $m$ -Tolyl pyromucamide).  
ST codling moth larvae. 1286.
- 186-625-951-1022.  
2-Furamide,  $N$ - $o$ -tolyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{CH}_3$ .  
ST codling moth larvae. 1286.
- 186-625-951-1022.  
2-Furamide,  $N$ - $p$ -tolyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{CH}_3$ . ( $N$ - $p$ -Tolylpyromucamide).  
T *Cochliomyia americana* C and P at 0.10%; ST codling moth larvae. 944, 1080.
- 186-625-951-1023.  
2-Furamide,  $N$ -(2, 4-xylyl)-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{CH}_3$ . ( $N$ -(2, 4-Xylyl) pyromucamide).  
T *Cochliomyia americana* C and P at 0.17%; ST codling moth and mosquito larvae. 157, 944, 1286.
- 186-625-951-1023.  
2-Furamide,  $N$ -(2, 5-xylyl)-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{CH}_3$ . ( $N$ -(2, 5-Xylyl) pyromucamide).  
T *Cochliomyia americana* C and P at 0.24%; ST codling moth and mosquito larvae. 157, 944, 1286.
- 186-625-951-1023.  
2-Furamide,  $N$ -(2, 6-xylyl)-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{CH}_3$ . ( $N$ -(2, 6-Xylyl) pyromucamide).  
T *Cochliomyia americana* C and P at 0.05%; NT mosquito and codling moth larvae. 157, 944, 1286.
- 186-625-952-1021.  
2-Furamide,  $N$ -4-biphenyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_4\text{C}_6\text{H}_5$ . ( $N$ -Xenylpyromucamide).  
MT *Culex quinquefasciatus* larvae; ST corn borer and codling moth larvae; NT *Cochliomyia americana* C and P and as mothproofing agent. 157, 239, 944, 1120, 1286.
- 186-625-951-1021.  
2-Furamide,  $N$ -cyclohexyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_6\text{H}_{11}$ . ( $N$ -Cyclohexylpyromucamide).  
T *Cochliomyia americana* C and P; MT mosquito larvae; ST codling moth larvae. 157, 944, 1286.
- 186-625-989-1021.  
2-Furamide, tetrahydro-,  $N$ -decyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_{10}\text{H}_{21}$ . (Decylamide of tetrahydrofuroic acid).  
Fly spray. 112, 1224P.
- 186-625-989-1021.  
2-Furamide,  $N$ -dodecyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CONHC}_{12}\text{H}_{25}$ . (n-Dodecylamide of furoic acid).  
Fly spray. 112, 1224P.
- 186-625-993-1021.  
Caproamide,  $N$ -tetrahydrofurfuryl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{NHCOCH}_7\text{H}_{13}$ . (Tetrahydrofurfurylamide of octanoic acid).  
Fly spray. 112, 1224P.
- 186-665-952-1011.  
Acetanilide,  $p$ -phenylazo-;  $\text{C}_6\text{H}_5\text{N}=\text{NC}_6\text{H}_4\text{NHCOCH}_3$ . (4-Acetamino azobenzene).  
ST greenhouse red spider at 4%; NT southern army worm at 2%. 1461.
- 186-671-951-1011.  
Acetanilide,  $m$ -amino-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{NH}_2$ . 1313.
- 186-671-951-1011.  
Acetanilide,  $o$ -amino-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{NH}_2$ . 1313.
- 186-671-951-1011.  
Acetanilide,  $p$ -amino-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{NH}_2$ . ( $N$ -Acetyl- $p$ -phenylenediamine).  
T melon worm, imported cabbage worm, southern beet webworm, Hawaiian beet webworm, southern army worm, termites, Mexican bean beetle, diamond-back moth, bean leaf roller, cross-striped cabbage worm, and cabbage looper. 494, 1312, 1313.
- 186-671-983-1011.  
Stearamide,  $N$ -(2-aminoethyl)-;  $\text{C}_{17}\text{H}_{35}\text{CONHC}_6\text{H}_4\text{NH}_2$ . (Stearyl-amido-ethylamine). 1178, 1414P.
- 186-671-983-1011-1030.  
Oleamide,  $N$ -(3-aminoethyl)-;  $\text{CH}_3(\text{CH}_2)_7\text{CH}(\text{CH}_2)_7\text{CONHC}_6\text{H}_4\text{NH}_2$ . (Olelyl-amido-ethylamine). 1178, 1414P.
- 186-671-985-1033.  
Palmitamide,  $N$ -(3-aminopropyl)-;  $\text{C}_{15}\text{H}_{31}\text{CONHC}_6\text{H}_4\text{NH}_2$ .

- $\text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$ . (Palmityl-amido-Propylamine). 1178, 1414P.
- 186-691-983-1011-1022. Stearamide, *N*-(2-dimethylaminoethyl)-;  $\text{C}_{17}\text{H}_{35}\text{CO-NHCH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$ . (Dimethyl-stearyl-amido-ethylamine). 1178, 1414P.
- 186-691-983-1013-1033. Linoleamide, *N*-(2-diethylaminoethyl)-;  $\text{C}_{17}\text{H}_{33}\text{CO-NHCH}_2\text{CH}_2\text{N}(\text{C}_2\text{H}_5)_2$ . (Diethyl-linoleyl-amido-ethylamine). 1178, 1414P.
- 186-696-854-952-1012-1022-1291. Ammonium chloride, bis(3, 4-dichlorophenylcarbamylmethyl) dimethyl-;  $\text{Cl}_2\text{C}_6\text{H}_4\text{NHCOC}(\text{CH}_3)_2(\text{Cl})\text{-CONHC}_6\text{H}_4\text{Cl}$ . 528.
- 186-701-951-1003. Acetanilide,  $\alpha$ -cyano-;  $\text{ONCH}_2\text{CONHC}_6\text{H}_5$ . ST screwworms and corn borer; NT as mothproofing agent. 239, 944, 1120.
- 186-730-989-1021. Picolinamide, *N*-dodecyl-;  $\text{NC}_6\text{H}_4\text{CONHC}_{12}\text{H}_{25}$ . (*N*-Dodecylamide of *o*-picolinic acid). HT fly spray. 112, 736P, 1224P.
- 186-730-997-1021. Nicotinamide, *N*-hexyl-;  $\text{NC}_6\text{H}_4\text{CONHC}_6\text{H}_{13}$ . (Hexylamide of nicotinic acid). Fly spray. 112, 736P, 1224P.
- 186-730-1021-1027. Picolinamide, *N*-alkyl-;  $\text{RNHCOC}_6\text{H}_4\text{N}$ . (Picolinic acid amide). 771AP.
- 186-730-1021-1027. Nicotinamide, *N*-alkyl-;  $\text{RNHCOC}_6\text{H}_4\text{N}$ . (Nicotinic acid amide; 3-pyridinecarboxylic acid amide). 771AP.
- 186-730-1021-1027. Isonicotinamide, *N*-alkyl-;  $\text{RNHCOC}_6\text{H}_4\text{N}$ . (Isonicotinic acid amide). 771AP.
- 186-740-980-1011. Carbasole, 3-acetamido-;  $(\text{C}_6\text{H}_5\text{N})\text{NHCOCH}_3$ . (3-Acetamidocarbasole). HT codling moth larvae. 1291.
- 186-740-980-1011. Acetamide, *N*-3-indolyl-;  $(\text{C}_8\text{H}_7\text{N})\text{NHCOCH}_3$ . (Indoleacetamide). NT *Culex quinquefasciatus*. 157.
- 186-781-951-1011. Acetamide,  $\alpha$ -phenylthio-;  $\text{C}_6\text{H}_5\text{SCH}_2\text{CONH}_2$ . (Thiophenyl acetamide). MT *Bombyx mori* larvae. 559.
- 186-901-951-983-999-1012-1389. Sulfonium ethyl sulfate, amylethyl(*p*-stearamido-benzyl)-;  $\text{C}_8\text{H}_{17}(\text{C}_6\text{H}_5)(\text{C}_{17}\text{H}_{35}\text{CONHC}_6\text{H}_4\text{CH}_2)_2\text{SC}_2\text{H}_5\text{SO}_4$ ? (*p*-Stearylamidobenzylamylethyl-sulfonium ethoxy-sulfate). 526P.
- 186-841-951-1011. Acetanilide, *m*-bromo-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Br}$ . NT as mothproofing agent. 239.
- 186-841-951-1011. Acetanilide, *o*-bromo-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Br}$ . (*o*-Bromoacetanilide; *N*-acetyl-*o*-bromoaniline). NT as mothproofing agent. 239.
- 186-841-951-1011. Acetanilide, *p*-bromo-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Br}$ . (*N*-Acetyl-*p*-bromoaniline; antiseptin; aseptin; brom-anilid). NT as mothproofing agent. 239.
- 186-851-951-1011. Acetanilide, *m*-chloro-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Cl}$ . (*N*-Acetyl-*m*-chloroaniline). T as mothproofing agent. 239, 1312.
- 186-851-951-1011. Acetanilide, *o*-chloro-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Cl}$ . ST codling moth at 4%; NT southern army worm at 4% and as mothproofing agent. 239, 1312, 1481.
- 186-851-951-1011. Acetanilide, *p*-chloro-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Cl}$ . ST codling moth at 4% and ST Japanese beetle; NT southern army worm at 4% and as mothproofing agent. 239, 494, 1312, 1481.
- 186-851-951-1011. Acetanilide,  $\alpha$ -chloro-;  $\text{C}_6\text{H}_5\text{NHOCH}_2\text{Cl}$ . (*N*-Acetyl- $\alpha$ -chloroaniline; *N*-monochloroacetylaniline;  $\alpha$ -chloroacetanilide). ET *Cochliomyia americana* C and P at 0.03%; T *Blattella germanica*; MT mosquito larvae. 487, 944, 1085P.
- 186-851-951-1011. Acetanilide, chloro-, OU;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Cl}$ . NT as mothproofing agent up to 2%. 985, 1176.
- 186-871-951-1011. Acetanilide, *m*-iodo-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{I}$ . T many insects; NT as mothproofing agent. 110, 239, 1318P.
- 186-871-951-1011. Acetanilide, *o*-iodo-. T many insects. 110, 1318P.
- 186-871-951-1011. Acetanilide, *p*-iodo-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{I}$ . T mosquito larvae and many other insects; NT as mothproofing agent. 110, 239, 487, 1318P.
- 186-881-951-1011. Acetanilides, halogenated;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{X}$ . T termites, clothes moth, Colorado potato beetle, and greenhouse leaf tier. 1312, 1318P.
- 186-912. Acetamide, *N*-2-fluorenyl-;  $\text{C}_{15}\text{H}_9\text{NHCOCH}_3$ . (*N*-2-Fluorylacetamide). ST codling moth. 1286.
- 186-912-951-1021. Benzamide, *N*-2-fluorenyl-;  $\text{C}_6\text{H}_5\text{CONHC}_{15}\text{H}_9$ . (*N*-2-Fluorylbenzamide). ST codling moth larvae. 1286.
- 186-912-985. Palmitamide, *N*-2-fluorenyl-;  $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_2\text{CONHC}_{15}\text{H}_9$ . (*N*-2-Fluorylpalmitamide). ST codling moth larvae. 1286.
- 186-912-989. Lauramide, *N*-2-fluorenyl-;  $\text{CH}_3(\text{CH}_2)_8\text{CH}_2\text{CONHC}_{15}\text{H}_9$ . (*N*-2-Fluoryllauramide). ST codling moth larvae. 1286.
- 186-912-1003. Propionamide, *N*-2-fluorenyl-;  $\text{C}_{15}\text{H}_9\text{NHCOCH}_2\text{CH}_3$ . (*N*-2-Fluorylpropionamide). ST codling moth larvae. 1286.
- 186-912-1021. Formamide, *N*-2-fluorenyl-;  $\text{C}_{15}\text{H}_9\text{NHCOH}$ . (*N*-2-Fluorylformamide). ST codling moth larvae. 1286.
- 186-924. Formamide, *N*-1-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOH}$ . ST codling moth larvae. 1286.
- 186-924-951-1021. Benzamide, *N*-1-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_3$ . (Benzoyl  $\alpha$ -naphthylamine). ST Japanese beetle and codling moth larvae; NT *Bombyx mori* larvae. 494, 559, 915, 1286.
- 186-924-951-1021. Benzamide, *N*-2-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_3$ . ST codling moth larvae. 1286.
- 186-924-985. Palmitamide, *N*-1-naphthyl-;  $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_2\text{CONHC}_{10}\text{H}_7$ . ST codling moth larvae. 1286.
- 186-924-985. Palmitamide, *N*-2-naphthyl-;  $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_2\text{CONHC}_{10}\text{H}_7$ . ST codling moth larvae. 1286.
- 186-924-989. Lauramide, *N*-1-naphthyl-;  $\text{CH}_3(\text{CH}_2)_8\text{CH}_2\text{CONHC}_{10}\text{H}_7$ . ST codling moth larvae. 1286.
- 186-924-989. Lauramide, *N*-2-naphthyl-;  $\text{CH}_3(\text{CH}_2)_8\text{CH}_2\text{CONHC}_{10}\text{H}_7$ . ST codling moth larvae. 1286.
- 186-924-1003. Propionamide, *N*-1-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_2\text{CH}_3$ . ST codling moth larvae. 1286.
- 186-924-1003. Propionamide, *N*-2-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_2\text{CH}_3$ . ST codling moth larvae. 1286.
- 186-924-1011. Acetamide, *N*-1-naphthyl-;  $\text{C}_{10}\text{H}_7\text{CH}_2\text{CONH}_2$ . (*N*-Acetyl-1-naphthylamine). HT codling moth larvae; NT *Bombyx mori* larvae. 39P, 559, 1286, 1291.
- 186-924-1011. Acetamide, *N*-2-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_3$ . ST codling moth larvae. 1286.

- 186-924-1011.  
Acetamide, naphthyl, OU;  $C_{10}H_7NHCOC_6H_5$ . (Naphthylamine, acetyl-).  
T as mothproofing agent. 333P, 1176.
- 186-924-1021.  
Formamide, N-2-naphthyl-;  $C_{10}H_7NHCOH$ .  
ST codling moth larvae. 1286.
- 186-951-981-1021.  
Benzamide, N-cyclohexyl-;  $C_6H_5CONHC_6H_{11}$ . (N-Benzoyl cyclohexylamine).  
T *Mysus persicus*; ST codling moth larvae and mosquito larvae; NT *Mysus persicus* and *Tetranychus telarius*. 487, 772, 1286.
- 186-951-983.  
Stearanilide;  $C_{17}H_{35}CONHC_6H_5$ . (Stearic acid anilide).  
T as mothproofing agent. 1179, 1341P.
- 186-951-985.  
Palmitanilide;  $CH_3(CH_2)_{13}CH_2CONHC_6H_5$ .  
ST codling moth larvae. 1286.
- 186-951-985-1003-1021.  
Palmitamide, N-carvacyl-;  $C_{15}H_{31}CONHC_6H_5$ . ( $CH_3$ )( $C_6H_5$ ).  
NT *Cochliomyia americana* C and P. 944.
- 186-951-985-1021.  
m-Palmitolulide;  $CH_3(CH_2)_{13}CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-985-1021.  
o-Palmitolulide;  $CH_3(CH_2)_{13}CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-985-1021.  
p-Palmitolulide;  $CH_3(CH_2)_{13}CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-985-1021.  
Palmitamide, N-benzyl-;  $CH_3(CH_2)_{13}CH_2CONHC_6H_5$ .  
ST codling moth larvae. 1286.
- 186-951-989.  
Lauranilide;  $C_6H_5NHC(O)CH_2(CH_2)_8CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-989-1021.  
m-Laurotolulide;  $CH_3(CH_2)_8CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-989-1021.  
o-Laurotolulide;  $CH_3(CH_2)_8CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-989-1021.  
p-Laurotolulide;  $CH_3(CH_2)_8CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-989-1021.  
Lauramide, N-benzyl-;  $C_{11}H_{23}CONHC_6H_5$ .  
ST codling moth larvae. 1286.
- 186-951-997.  
Caproanilide;  $C_6H_5CONHC_6H_5$ .  
NT screwworms. 156.
- 186-951-999.  
Isovaleranilide;  $C_6H_5NHCOC_6H_5CH(CH_3)_2$ .  
NT screwworms. 156.
- 186-951-1001.  
Butyranilide;  $CH_3(CH_2)_3CONHC_6H_5$ . (N-Phenylbutyramide).  
NT screwworms. 156.
- 186-951-1003.  
Propionanilide;  $C_6H_5NHCOC_2H_5$  (N-Phenylpropionamide).  
ST codling moth larvae. 1286.
- 186-951-1003-1021.  
m-Propionotulide;  $CH_3CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-1003-1021.  
o-Propionotulide;  $CH_3CH_2CONHC_6H_4CH_3$ .  
ST codling moth larvae. 1286.
- 186-951-1003-1021.  
p-Propionotulide;  $CH_3CH_2CONHC_6H_4CH_3$ .  
ST codling moth and mosquito larvae. 157, 1286.
- 186-951-1003-1021.  
Propionamide, N-benzyl-;  $C_6H_5CH_2NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1003-1023.  
Propionamide, N-(2, 4-xylyl)-;  $C_6H_5CONHC_6H_3(CH_3)_2$ .  
ST *Cochliomyia americana* C and P and codling moth larvae. 944, 1286.
- 186-951-1003-1023.  
Propionamide, N-(2, 5-xylyl)-;  $C_6H_5CONHC_6H_3(CH_3)_2$ .  
Propionamide, N-(2, 6-xylyl)-;  $C_6H_5CONHC_6H_3(CH_3)_2$ .  
ST codling moth larvae; NT *Culex quinquefasciatus*. 157, 1286.
- 186-951-1004-1021.  
Propionamide, N-carvacyl-;  $C_6H_5CONHC_6H_3(CH_3)_2$ . (C<sub>6</sub>H<sub>7</sub>).  
ST corn borer and screwworm larvae; NT *Culex quinquefasciatus* and as mothproofing agent. 157, 239, 944, 1120.
- 186-951-1011.  
Acetanilide;  $C_6H_5NHCOC_2H_5$ . (N-Phenylacetamide; antifebrin).  
T Japanese beetle; ST codling moth larvae; NT as mothproofing agent. 915, 985, 1008, 1176, 1286.
- 186-951-1011-1021.  
m-Acetotulide;  $CH_3C_6H_4NHCOC_2H_5$ . (N-Acetyl-m-toluidine; acet-m-tolulide).  
ST codling moth larvae. 1286.
- 186-951-1011-1021.  
o-Acetotulide;  $CH_3C_6H_4NHCOC_2H_5$ . (o-Methylacetanilide; N-acetyl-o-toluidine; acet-o-tolulide).  
ST codling moth larvae. 494, 1286.
- 186-951-1011-1021.  
p-Acetotulide;  $CH_3CONHC_6H_4CH_3$ . (N-Acetyl-p-toluidine; acet-p-tolulide).  
T screwworm larvae; MT codling moth larvae; ST Japanese beetle; NT mosquito larvae. 157, 487, 494, 559, 944, 1286, 1291.
- 186-951-1011-1021.  
Acetamide, N-benzyl-;  $C_6H_5CH_2NHCOC_2H_5$ . (N-Acetylbenzylamine; acetobenzylamide).  
ST codling moth larvae. 1286.
- 186-951-1011-1022.  
Acetamide, N-(2, 4-xylyl)-;  $(CH_3)_2C_6H_3NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1011-1022.  
Acetamide, N-(2, 5-xylyl)-;  $(CH_3)_2C_6H_3NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1011-1022.  
Acetamide, N-(2, 6-xylyl)-;  $(CH_3)_2C_6H_3NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1011-1022.  
Acetamide, N-xylyl-, CU;  $(CH_3)_2C_6H_3NHCOC_2H_5$ . (Acetyl-o-methyl toluidine).  
NT codling moth. 915.
- 186-951-1012.  
Acetamide, N,N'-o-phenylenebis-;  $C_6H_4(NHCOC_2H_5)_2$ .  
ST Japanese beetle. 494, 1008.
- 186-951-1012.  
Acetamide, N,N'-p-phenylenebis-;  $C_6H_4(NHCOC_2H_5)_2$ . (N,N'-Diacetyl-p-phenylene diamine).  
ST codling moth at 4%. 1481.
- 186-951-1021.  
Formanilide;  $C_6H_5NHCOC_2H_5$ .  
ST codling moth and screwworm larvae. 156, 915, 1286.
- 186-951-1022.  
Formamide, N-benzyl-;  $C_6H_5CH_2NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1022.  
m-Formotulide;  $CH_3C_6H_4NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1022.  
o-Formotulide;  $CH_3C_6H_4NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1022.  
p-Formotulide;  $CH_3C_6H_4NHCOC_2H_5$ .  
ST codling moth larvae. 1286.
- 186-951-1023.  
Formamide, N-(2, 4-xylyl)-;  $(CH_3)_2C_6H_3NHCOC_2H_5$ .  
T screwworm larvae; ST codling moth larvae; NT *Culex quinquefasciatus* larvae. 157, 944, 1286.
- 186-951-1023.  
Formamide, N-(2, 5-xylyl)-;  $(CH_3)_2C_6H_3NHCOC_2H_5$ .  
T screwworm larvae; ST codling moth larvae; NT *Culex quinquefasciatus* larvae. 157, 944, 1286.
- 186-951-1023.  
Formamide, N-(2, 6-xylyl)-;  $(CH_3)_2C_6H_3NHCOC_2H_5$ .

T screwworm larvae; ST codling moth larvae. 944, 1286.  
 186-952-1022.  
 Formanilide, *p*-phenyl-;  $C_6H_5CONHC_6H_4CH_3$ . (N-Xenylformanilide).  
 ST codling moth larvae, corn borer, and as mothproofing agent. 239, 1120, 1286.  
 186-952-1021.  
 Guanilide;  $(-CONHC_6H_5)_2$ . (N,N'-Diphenylguanilide; guanilic acid dihydride).  
 NT screwworms and codling moth. 156, 494, 915.  
 186-952-1011.  
 Acetanilide, *p*-phenyl-;  $CH_3CONHC_6H_4C_6H_5$ . (N-Xenylacetanilide).  
 MT *Culex quinquefasciatus*; ST corn borer, codling moth larvae, and as mothproofing agent. 157, 239, 1120, 1286.  
 186-952-1011-1023.  
 Bensamide, N,N'-ethylenebis-;  $(C_6H_5CONHCH_2)_2$ . (Diethylenethylenediamine).  
 ST codling moth larvae; NT *Bombyx mori* larvae. 559, 915.  
 186-952-1012.  
 Acetanilide, 4,4'-biphenylenebis-;  $(CH_3CONHC_6H_4)_2$ . (Diethyl benzidine; *p,p'*-biacetanilide).  
 NT screwworm and *Bombyx mori* larvae. 156, 559.  
 186-952-1021.  
 Bensamide;  $C_6H_5CONHC_6H_5$ .  
 ST screwworm and codling moth larvae; NT clothes moth larvae and greenhouse red spider. 156, 915, 985, 1176, 1286, 1481.  
 186-952-1021.  
 Formanilide, *p*-phenyl-;  $HCONHC_6H_4C_6H_5$ . (N-Xenylformanilide).  
 HT *Culex quinquefasciatus*; ST corn borer, codling moth larvae, and as mothproofing agent. 157, 239, 1120, 1286.  
 186-952-1022.  
 m-Benzotoluidide;  $C_6H_5CONHC_6H_4CH_3$ . (Benzoyl-m-toluidine; N-benzoyl-m-toluidine; m-benzotoluidide).  
 ST codling moth larvae. 1286.  
 186-952-1022.  
 o-Benzotoluidide;  $C_6H_5CONHC_6H_4CH_3$ . (Benzoyl-o-toluidine; N-benzoyl-o-toluidine).  
 ST codling moth larvae; NT screwworms. 156, 915, 1286.  
 186-952-1022.  
 p-Benzotoluidide;  $C_6H_5CONHC_6H_4CH_3$ . (Benzoyl-p-toluidine; N-benzoyl-p-toluidine).  
 ST codling moth larvae. 1286.  
 186-952-1022.  
 Bensamide, N-benzyl-;  $C_6H_5CONHCH_2C_6H_5$ .  
 ST codling moth larvae. 1286.  
 186-952-1023.  
 Bensamide, N-(2, 4-xylyl)-;  $C_6H_5CONHC_6H_3(CH_3)_2$ .  
 MT *Culex quinquefasciatus* larvae; ST codling moth and screwworm larvae. 157, 944, 1286.  
 186-952-1023.  
 Bensamide, N-(2, 5-xylyl)-;  $C_6H_5CONHC_6H_3(CH_3)_2$ .  
 ST codling moth and screwworm larvae. 944, 1286.  
 186-952-1023.  
 Bensamide, N-(2, 6-xylyl)-;  $C_6H_5CONHC_6H_3(CH_3)_2$ .  
 MT *Culex quinquefasciatus* larvae; ST codling moth larvae; NT screwworm larvae. 157, 944, 1286.  
 186-952-1021.  
 Bensamide, 4'-phenyl-;  $C_6H_5CONHC_6H_4C_6H_5$ . (N-Xenylbensamide).  
 ST corn borer and codling moth larvae; NT *Culex quinquefasciatus* larvae. 157, 239, 1120, 1286.  
 186-951-985.  
 Palmatamide, N-cyclohexyl-;  $CH_3(CH_2)_5CH_2CONHC_6H_{11}$ .  
 ST codling moth larvae. 1286.  
 186-951-989.  
 Lauramide, N-cyclohexyl-;  $CH_3(CH_2)_9CH_2CONHC_6H_{11}$ .  
 ST codling moth larvae. 1286.  
 186-951-1003.  
 Propionamide, N-cyclohexyl-;  $C_6H_{11}NHCOCH_2CH_3$ .  
 ST codling moth larvae. 1286.  
 186-951-1011.  
 Acetanilide, N-cyclohexyl-;  $C_6H_{11}NHCOCH_3$ . (N-

Acetyl cyclohexylamine).  
 T *Mypus porcus*; ST codling moth larvae. 497, 772, 1286.  
 186-951-1051.  
 Formamide, N-cyclohexyl-;  $C_6H_{11}NHCOH$ . (N-Formyl cyclohexylamine).  
 T *Mypus porcus*; ST codling moth larvae; NT *Tetranychus solarius*. 772, 1286.  
 186-952-1021-1102-1225-1230.  
 Methanephosphonic acid, stearylamine-;  $C_{17}H_{35}CONHCH_2PO(OH)_2$ . 312A.  
 186-952-1001.  
 Lauramide, N-isobutyl-;  $C_{11}H_{23}CONHCH_2CH(CH_3)_2$ . (Isobutylamide of lauric acid).  
 HT fly spray. 105P, 112.  
 186-952-1001-1030.  
 Lauramide, N-(3-methylallyl)-;  $C_{11}H_{23}CONHCH_2C(CH_3)=CH_2$ . (Amide, lauric acid, N-methylallyl-).  
 ST houseflies at 0.5%. 1276.  
 186-952-1003-1030.  
 Lauramide, N-allyl-;  $C_{11}H_{23}CONHCH_2CH=CH_2$ . (Amide, lauric acid, N-allyl-).  
 NT houseflies at 0.5%. 1276.  
 186-952-1001-1030.  
 10-Hendecanamide, N-butyl-;  $C_{10}H_{21}CONHC_4H_9$ . (N-Butyl amide of 10, 11-undecylenic acid).  
 HT fly spray. 105P, 112.  
 186-952-1001-1030.  
 10-Hendecanamide, N-isobutyl-;  $C_{10}H_{21}CONHCH_2CH(CH_3)_2$ . (Amide, undecylenic acid, isobutyl-).  
 NT houseflies. 1276.  
 186-952-1001-1033.  
 Hendecanamide, N-(2-methylallyl)-;  $CH_3CH=CH(CH_2)_7CONHCH_2C(CH_3)=CH_2$ . (Amide, undecylenic acid, N-methylallyl-).  
 ST houseflies at 0.5%. 1276.  
 186-952-1003-1033.  
 Hendecanamide, N-allyl-;  $CH_3CH=CH(CH_2)_7CONHCH_2CH=CH_2$ . (Amide, undecylenic acid, N-allyl-).  
 HT houseflies at 0.5%. 1276.  
 186-952-1001.  
 Caproamide, N-isobutyl-;  $C_6H_{13}CONHCH_2CH(CH_3)_2$ . (Isobutylamide of capric acid).  
 HT fly spray. 105P, 112.  
 186-1001-1045.  
 Coconut oil, acid amides. [Mixture of isobutylamides of octanoic, decanoic, and lauric acids (from coconut oil acids)].  
 HT fly spray. 105P, 112.  
 186-1045.  
 Amides, N-substituted.  
 T screwworm larvae, melon worm, southern beet webworm, imported cabbage worm, and the southern army worm. 1312.  
 187-230-581-983.  
 Morpholine, 4-(12-hydroxystearoyl)-;  $O(C_2H_5)_2NCOOC_{17}H_{35}OH$ .  
 Fly spray. 112, 1224P.  
 187-230-581-983-1030.  
 Morpholine, 4-ricinoleyl-;  $HOO_{17}H_{35}CON(C_2H_5)_2O$ .  
 Fly spray. 112, 1224P.  
 187-230-961-1022.  
 1, 2-Cyclohexanedicarboxylic acid, di-4-morpholide;  $C_6H_{10}[CON(C_2H_5)_2O]_2$ . (Morpholide of hexahydrophthalic acid).  
 Fly spray. 112, 1224P.  
 187-230-983-1030.  
 Morpholine, 4-oleyl-;  $C_{17}H_{35}CON(C_2H_5)_2O$ .  
 Fly spray. 112, 1224P.  
 187-230-989.  
 Morpholine, 4-dodecanoyl-;  $C_{11}H_{23}CON(C_2H_5)_2O$ .  
 Fly spray. 112, 1224P.  
 187-230-990-1030.  
 Morpholine, 4-(10-hendecanoyl)-;  $C_{10}H_{21}CON(C_2H_5)_2O$ . (4-(10, 11-Undecylenyl)morpholine).  
 HT fly spray. 112, 1224P.  
 187-230-991.  
 Sebacid acid, di-4-morpholide-;  $(CH_2)_8[CON(C_2H_5)_2O]_2$ .  
 Fly spray. 112, 1224P.

- 187-930-932.  
Azelaic acid, di-4-morpholide-;  $(\text{CH}_2)_7[\text{CON}(\text{C}_2\text{H}_4)_2\text{O}]_2$ .  
Fly spray. 112, 1234P.
- 187-930-933.  
Suberic acid, di-4-morpholide-;  $(\text{CH}_2)_8[\text{CON}(\text{C}_2\text{H}_4)_2\text{O}]_2$ .  
Fly spray. 112, 1234P.
- 187-942-950-951-1011.  
Acetanilide, *N*-2-benzoxazolyl-;  $\text{CH}_3\text{CON}(\text{C}_6\text{H}_5)-\text{ONC}_6\text{H}_4\text{O}$ . (2-(1)-(N-Phenylacetamido)benzoxazole).  
HT codling moth and mosquito larvae. 487, 1291.
- 187-950-989-1003-1022.  
Dodecylxanthic acid, anhydride with dibutylcarbamate acid;  $\text{C}_{12}\text{H}_{25}\text{OOCSSCON}(\text{C}_4\text{H}_9)_2$ . (Dibutylamide of dodecylxanthic formic acid). 1472P.
- 187-950-989-1011-1023.  
Dodecylxanthic acid, anhydride with ethylmethylcarbamate acid;  $\text{C}_{12}\text{H}_{25}\text{OOCSSCONCH}_2(\text{C}_2\text{H}_5)$ . (N-Methyl-N-ethylamide of dodecylxanthic formic acid). 1472P.
- 187-958-981-951-952-1022.  
1-Phenol-2-sulfonic acid, 4-chloro-6-methylphenylcarbamyl-;  $\text{Cl}(\text{OH})\text{C}_6\text{H}_3(\text{SO}_3\text{H})\text{CON}(\text{CH}_3)\text{C}_6\text{H}_5$ . (Salicylic acid, 5-chloro-2-sulpho-N-methylanilide).  
T as mothproofing agent. 464P, 1176.
- 187-958-996-1001-1022-1218.  
Ethanesulfonic acid, 1, 2-bis(heptylmethylcarbamyl)-, sodium salt;  $(\text{CH}_3)(\text{C}_6\text{H}_5)(\text{SO}_3\text{H})\text{CON}(\text{CH}_3)\text{C}_6\text{H}_5$ . (Sodium bis(N-methyl, N-heptyl) sulphosuccinamide). 624P.
- 187-976-951-999-1021.  
Urea, 1-phenyl-2-thio-1-valeryl-;  $\text{C}_6\text{H}_5(\text{C}_6\text{H}_5\text{CO})-\text{NC}(\text{S})\text{NH}_2$ . (Urea, asym.-phenylvalerylthio-).  
T as mothproofing agent. 416P, 424P, 683P, 1175.
- 187-440-852-950.  
Phenothiazine, 10-( $\alpha,\alpha$ -dichloroacetyl)-?  $(\text{C}_{12}\text{H}_8\text{NS})\text{COCHCl}_2$ ? (Diphenylamine, acetyldichlorothio-).  
T as mothproofing agent. 873P, 1176.
- 187-440-950-989.  
Phenothiazine, 10-lauroyl-;  $(\text{C}_{12}\text{H}_8\text{NS})\text{COC}_{11}\text{H}_{23}$ .  
ST Mexican bean beetle and Colorado potato beetle; fly spray. 112, 606, 1224P, 1432.
- 187-440-950-1013.  
Phenothiazine, 10-acetyl-;  $(\text{C}_{12}\text{H}_8\text{NS})\text{COCH}_3$ .  
HT mosquito larvae; MT Mexican bean beetle and Colorado potato beetle; NT codling moth. 156, 487, 606, 1291, 1432.
- 187-440-950-1011-1022.  
Phenothiazine, 10-acetyl- 3, 7-dimethyl-;  $(\text{CH}_3)_2(\text{C}_{12}\text{H}_8\text{NS})\text{COCH}_3$ .  
T *Lucilia cuprina* larvae. 849.
- 187-541-951-1012.  
Glycine, *N*-acetyl-N-phenyl-;  $\text{C}_6\text{H}_5\text{N}(\text{COCH}_3)\text{CH}_2\text{COOH}$ . (Acetic acid, acetylphenylamino-; *N*-phenyl acetic acid?).  
T as mothproofing agent. 329P, 1176.
- 187-551-696-740-950-990-1013-1022-1291.  
Ammonium chloride, (carbethoxymethyl)dimethyl-[1-(2, 3-dihydro-2-hendecylindolyl)carbonylmethyl]-;  $\text{C}_{11}\text{H}_{23}(\text{C}_6\text{H}_7\text{N})\text{OOCCH}_2\text{N}(\text{CH}_3)_2\text{Cl}$ .  $\text{CH}_3\text{COOCC}_6\text{H}_5$ . (2-Hendecyl-3, 3-dihydroindole-N-dimethylaminooctate acid + chloroacetic acid ethyl ester). 520P.
- 187-551-861-1001-1011-1022.  
Sarcosine, *N*-fluorobutyl-, methyl ester;  $\text{FC}_6\text{H}_5\text{CON}(\text{CH}_3)\text{CH}_2\text{COOCH}_3$ ? (Monofluorobutyric acid-methylsarcoside). 345P.
- 187-635-951-1011-1021.  
Acetanilide, *N*-cyclohexyl-N-tetrahydrofurfuryl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{N}(\text{OCH}_2\text{C}_4\text{H}_7)\text{C}_6\text{H}_5$ . (N,N-Tetrahydrofurfuryl-acetyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-636-730-950-999-1030.  
Piperine;  $\text{C}_{17}\text{H}_{25}\text{NO}_5$ .  
T houseflies at 0.5%. 646.
- 187-671-951-999-1011-1022.  
Acetanilide,  $\alpha$ -dimethylamino-N-dodecyl-;  $(\text{CH}_3)_2\text{NCH}_2\text{CON}(\text{C}_{12}\text{H}_{25})\text{C}_6\text{H}_5$ . (N-Lorylanilide of dimethylaminooctic acid). 524P.
- 187-691-953-1024.  
Benzamide, *N*-benzyl-N-(*p*-dimethylaminophenyl)-;  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{C}_6\text{H}_4\text{CO})\text{NC}_6\text{H}_4(\text{CH}_3)_2$ . (N'-( $\alpha$ -Benzoyl)benzylidene-; N,N-dimethyl-*p*-phenylenediamine).  
NT European corn borer at 4 lbs./100 gal. 1123.
- 187-730-950-999.  
Quinoline, decahydro-1-lauroyl-;  $\text{C}_{12}\text{H}_{23}\text{CO}(\text{NC}_6\text{H}_9)$ . (1-n-Dodecanoyldecahydroquinoline).  
Fly spray. 112, 1224P.
- 187-730-951-999-1011.  
Acetanilide, *N*-dodecyl- $\alpha$ -1-piperidyl-?  $(\text{C}_6\text{H}_5\text{N})-\text{CH}_2\text{CON}(\text{C}_{12}\text{H}_{25})\text{C}_6\text{H}_5$ ? (N-Lorylanilide of piperidinooctic acid). 524P.
- 187-730-951-1001-1021-1030.  
Benzamide, *N*-methyl-N-[4-(3-pyridyl)-3-butenyl]-;  $\text{CH}_3\text{N}(\text{COC}_6\text{H}_5)\text{CH}_2\text{CH}_2\text{CH}=\text{CH}(\text{C}_5\text{H}_4\text{N})$ . (Benzoyl-m-metanicotinic).  
T *Aphis rumicis*. 1151.
- 187-730-989.  
Piperidine, 1-lauroyl-;  $\text{C}_{12}\text{H}_{23}\text{CO}(\text{NC}_6\text{H}_9)$ . (1-n-Dodecanoylpiperidine).  
Fly spray. 112, 1224P.
- 187-730-951-1021.  
Piperidine, 1-benzoyl-;  $\text{C}_6\text{H}_5\text{CO}(\text{NC}_6\text{H}_9)$ . (Benzoylpiperidine).  
T codling moth; NT silkworm. 559, 915.
- 187-730-993.  
Piperidine, 1-caprylyl-2-(3-pyridyl)-;  $\text{C}_7\text{H}_{15}\text{CO}(\text{NC}_6\text{H}_9)\text{C}_5\text{H}_4\text{N}$ . (1-Octanoyl-2-(3-pyridyl) piperidine).  
Fly spray. 112, 1224P.
- 187-730-995.  
Piperidine, 1-emanthyl-;  $\text{C}_8\text{H}_{17}\text{CO}(\text{NC}_6\text{H}_9)$ . (1-Heptanoyl piperidine).  
Fly spray. 112, 1224P.
- 187-730-1011.  
Piperidine, 1-acetyl-?  $\text{CH}_3\text{CO}(\text{NC}_6\text{H}_9)$ ? (Acetyl piperidine).  
NT *Chrysomphalus aurantii*. 268.
- 187-740-852-950-1011.  
Carbasole, dichloro-9-acetyl-, CU?  $(\text{Cl}_2\text{C}_6\text{H}_3\text{N})-\text{OOCCH}_3$ . (Carbasole, acetyl dichloro-; acetyl dichlorodiphenylamide).  
T as mothproofing agent. 328P, 330P, 874P, 1176.
- 187-740-950-951-1021.  
Carbasole, 9-benzoyl-;  $(\text{C}_6\text{H}_5\text{N})\text{COC}_6\text{H}_5$ . (Benzoyl diphenylamide).  
T as mothproofing agent. 328P, 487, 1176, 1291.
- 187-740-950-1011.  
Carbasole, 9-acetyl-;  $\text{CH}_3\text{CO}(\text{NC}_6\text{H}_3)$ . (N-Acetylcabazole; acetyl dibenzopyrrole; acetyl diphenylamide).  
T as mothproofing agent. 328P, 873P, 1176, 1291, 1487.
- 187-742-950-987.  
Benzimidazole, 1-myristoyl-;  $(\text{C}_{17}\text{H}_{33}\text{N}_2)\text{COC}_{12}\text{H}_{25}$ . (N-Myristyl benzimidazole).  
ST codling moth at 4%; NT potato leaf-hopper. 1192P.
- 187-851-951-1011.  
Acetanilide,  $\alpha$ -chloro-N-phenyl-;  $(\text{C}_6\text{H}_5)_2\text{NCOCH}_2\text{Cl}$ . (N-Chloroacetyl-diphenylamine).  
MT mosquito larvae. 487.
- 187-853-951-1012.  
Acetanilide, *N*-trichloroethyl-?  $\text{CH}_3\text{CON}(\text{C}_6\text{H}_2\text{Cl}_3)-\text{C}_6\text{H}_5$ ? (Trichloroethylacetanilide).  
T as mothproofing agent. 1176, 1365P.
- 187-951-951-999-1021.  
Benzamide, *N*-amyl-N-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{N}(\text{C}_6\text{H}_{11})-\text{COC}_6\text{H}_5$ . (N,N-Amyl-benzoyl cyclohexylamine).  
T *Myzus persicae* and houseflies at 2%. 112, 673P, 772, 1276.
- 187-951-951-1001-1021.  
Benzamide, *N*-butyl-N-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{N}(\text{C}_6\text{H}_{11})-\text{COC}_6\text{H}_5$ . (N-Butyl-N-benzoyl-cyclohexylamine).  
HT houseflies. 112, 174P.
- 187-951-951-1011.  
Acetanilide, *N*-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{N}(\text{C}_6\text{H}_5)\text{COCH}_3$ . (N,N-Phenyl-acetyl cyclohexylamine).  
T *Myzus persicae*. 112, 174P, 772.
- 187-951-951-1011-1021.  
Benzamide, *N*-cyclohexyl-N-ethyl-;  $\text{C}_6\text{H}_{11}\text{N}(\text{C}_6\text{H}_5)-\text{COC}_6\text{H}_5$ . (N-Ethyl-N-benzoyl cyclohexylamine).  
HT houseflies. 112, 174P, 1276.
- 187-951-951-1011-1021.  
Acetanilide, *N*-benzyl-N-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{N}(\text{CH}_2\text{C}_6\text{H}_5)\text{COCH}_3$ . (N,N-Benzyl-acetyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-951-951-1011-1022.  
Acetanilide, *N*-benzyl-N-( $\alpha$ -methoxycyclohexyl)-;  $\text{CH}_3-$

- $C_6H_{11}N(CH_2CH_2C_6H_5)OOCCH_3$ . (*N,N*-Benzyl-acetyl-*o*-methyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-951-1001-1011.  
Acetanilide, *N*-butyl-;  $C_6H_5N(C_6H_5)COCH_3$ . (Acetyl *n*-butylaniline).  
NT *Chrysomphalus surrentii*. 268.
- 187-951-1003-1011.  
Acetanilide, *N*-propyl-;  $C_6H_5N(COCH_3)C_6H_5$ . (Acetyl *n*-propylaniline).  
T codling moth larvae and T screwworms at 0.10-0.17%. 156, 915.
- 187-951-1011-1021.  
Acetanilide, *N*-methyl-;  $CH_3CON(CH_3)C_6H_5$ . (Methylacetanilide).  
T screwworms at 0.10-0.17%. 156.
- 187-951-1011-1023.  
*m*-Acetotoluide, *N*-methyl-;  $CH_3CON(CH_3)C_6H_4CH_3$ .  
T *Cochliomyia americana* C and P; NT as mothproofing agent. 239, 944.
- 187-951-1011-1022.  
*o*-Acetotoluide, *N*-methyl-;  $CH_3CON(CH_3)C_6H_4CH_3$ . (*N*-Acetyl-*N*-methyl-*o*-toluidine).  
NT as mothproofing agent. 239.
- 187-951-1011-1022.  
*p*-Acetotoluide, *N*-methyl-;  $CH_3CON(CH_3)C_6H_4CH_3$ .  
NT as mothproofing agent. 239.
- 187-952-1011.  
Acetanilide, *N*-phenyl-;  $(C_6H_5)_2NCOCH_3$ . (Acetyl diphenylamine; *N,N*-diphenylacetamide; *N*-phenylacetanilide).  
T as mothproofing agent; ST codling moth larvae and ST screwworms at 0.67%. 156, 873P, 915, 1176.
- 187-952-1021.  
Formanilide, *N*-phenyl-;  $HCON(C_6H_5)_2$ . (Formyl diphenylamine; *N*-phenylformanilide; *N,N*-diphenylformamide).  
MT *Bombyx mori* larvae; ST screwworms at 0.67%. 156, 487, 559.
- 187-961-993-1011.  
Acetamide, *N*-cyclohexyl-*N*-(2-ethylhexyl)-;  $C_6H_{11}N(COCH_3)CH_2CH(C_6H_5)C_6H_5$ . (*N*-2-Ethylhexyl-*N*-acetylcyclohexylamine).  
Fly spray. 112, 174P.
- 187-961-993-1011.  
Acetamide, *N*-cyclohexyl-*N*-octyl-;  $C_6H_{11}N(C_6H_5)COCH_3$ . (*N,N*-Octyl-acetyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-961-999-1001.  
Butyramide, *N*-amyl-*N*-cyclohexyl-;  $C_6H_{11}N(C_6H_5)OC(CH_3)_2CH_3$ . (*N,N*-Amyl-butyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-961-999-1003.  
Propionamide, *N*-amyl-*N*-cyclohexyl-;  $C_6H_{11}N(C_6H_5)OCCH_2CH_3$ . (*N,N*-Amyl-propionyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-961-999-1011.  
Acetamide, *N*-amyl-*N*-cyclohexyl-;  $C_6H_{11}N(C_6H_5)COCH_3$ . (*N,N*-Amyl-acetyl cyclohexylamine).  
T *Myzus persicae* and as fly spray. 112, 174P, 772, 1276.
- 187-961-999-1021.  
Formamide, *N*-amyl-*N*-cyclohexyl-;  $C_6H_{11}N(C_6H_5)OCH_3$ . (*N,N*-Amyl-formyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-961-1001-1011.  
Acetamide, *N*-butyl-*N*-cyclohexyl-;  $C_6H_{11}N(C_6H_5)COCH_3$ . (*N,N*-*n*-Butyl-acetyl cyclohexylamine).  
T *Myzus persicae*; fly spray. 112, 174P, 772.
- 187-961-1001-1021.  
Formamide, *N*-butyl-*N*-cyclohexyl-;  $C_6H_{11}N(C_6H_5)COH$ . (*N,N*-*n*-Butyl formyl cyclohexylamine).  
ST *Myzus persicae* and *Tetranychus telarius*. 772.
- 187-961-1003-1011.  
Acetamide, *N*-cyclohexyl-*N*-propyl-;  $C_6H_{11}N(C_6H_5)OCH_3$ . (*N,N*-*n*-Propyl-acetyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-961-1011-1021.  
Acetamide, *N*-cyclohexyl-*N*-methyl-;  $C_6H_{11}N(CH_3)COCH_3$ . (*N,N*-Methyl-acetyl cyclohexylamine).  
T *Myzus persicae*. 772.
- 187-961-1012.  
Acetamide, *N*-cyclohexyl-*N*-ethyl-;  $C_6H_{11}N(C_6H_5)OCH_3$ . (*N,N*-Ethyl-acetyl cyclohexylamine).  
T *Myzus persicae*; fly spray. 112, 174P, 772.
- 187-961-1045.  
Amides, *N*-cyclohexyl-*N*-substituted;  $RN(X)COY$ . (Cyclohexylamines, *N*-acyl-*N*-alkyl-).  
Fly spray. 112, 174P.
- 187-990-1002-1086.  
9-Hendecanamide, *N,N*-bis(2-methylallyl)-?  $CH_3CH=CH(CH_2)_7CON(CH_2CH(CH_3)_2)_2$ . (Amide, undecylenic acid, *N,N*-dimethylallyl-).  
MT houseflies at 0.5%. 1376.
- 187-1013.  
Acetamide, *N,N*-diethyl-;  $CH_3CON(C_2H_5)_2$ . (Acetyl-diethylamine).  
NT red scale. 268.
- 187-1027.  
Amides;  $R_1CONR_2R_3$ .  
Fly sprays. 105P, 112, 736P.
- 188-192-951-1109.  
Hydroxylamine, *N*-nitroso-*N*-phenyl-, ammonium salt;  $C_6H_5N(NO)ONH_4$ . (Cupferron; ammonium phenyl nitroso hydroxylamine).  
T as mothproofing agent. 239.
- 188-1021.  
Methoxyamine;  $CH_3ONH_2$ . ( $\alpha$ -Methylhydroxylamine).  
T red scale. 268, 1180.
- 189-951-1011-1021.  
Carbanilic acid, ethyl ester;  $C_6H_5NHCOOC_2H_5$ . (Ethyl *N*-phenylcarbamate; *N*-phenylurethan).  
MT screwworms at 0.10-0.17%. 156.
- 189-952-1011-1021.  
Carbamic acid, diphenyl-, ethyl ester;  $(C_6H_5)_2NCOOCH_2CH_3$ . (Ethyl ester of diphenylcarbamic acid; diphenylurethan).  
T codling moth larvae and as mothproofing agent; NT screwworm larvae. 156, 239, 915.
- 189-1011-1021.  
Carbamic acid, ethyl ester;  $C_6H_5OOCNH_2$ . (Urethane).  
MT *ophis rumicis*; NT codling moth larvae. 915, 1153.
- 190-571-951-1001.  
1, 2-Butanedione, 1-phenyl-, 2-oxime;  $C_6H_5COC(=NOH)CH_2CH_3$ . (1-Phenyl-1, 2-butanedione-2-monoxime).  
MT as mothproofing agent. 239.
- 190-571-951-1001.  
1, 2-Propanedione, 1-phenyl-, 2-oxime;  $C_6H_5COC(=NOH)CH_3$ . (1-Phenyl-1, 2-propanedione-2-monoxime).  
NT *Cochliomyia americana* C and P. 944.
- 190-571-951-1011.  
Glyoxal, phenyl-, 2-oxime;  $C_6H_5COCH=NOH$ . (Phenylglyoxal oxime).  
T *Cochliomyia americana* C and P at 0.17%. 944.
- 190-571-951-1022.  
Anisaldehyde, oxime;  $CH_3OC_6H_4CH=NOH$ . (Anisaldehyde oxime).  
T *Cochliomyia americana* C and P at 0.17%. NT corn borer. 944, 1120.
- 190-571-993.  
2, 3-Octanedione, 3-oxime;  $CH_3(CH_2)_5C(=NOH)COCH_3$ .  
MT as mothproofing agent. 239.
- 190-571-999.  
2, 3-Pentanedione, 3-oxime;  $CH_3CH_2C(=NOH)COCH_3$ .  
MT as mothproofing agent. 239.
- 190-571-1001.  
2, 3-Butanedione, 3-oxime;  $CH_3COC(=NOH)CH_3$ . (Biacetyl mono-oxime;  $\alpha$ -isobutyroacetyl methyl ketone).  
MT as mothproofing agent. 239.
- 190-571-1001-1021.  
2, 3-Butanedione, 2-methoxime;  $CH_3COC(=NOCH_3)CH_3$ . (Diacetyl monomethoxime).  
T *Sitophilus oryzae*. 1180.
- 190-581-591-951-1023.  
Vanillin, oxime;  $CH_3OC_6H_4CH=NOH$ .  
NT codling moth larvae and as mothproofing agent. 239, 1120.
- 190-591-953-1023.  
Benzophenone, *p*-benzoyloxy-, oxime;  $C_6H_5CH_2OC_6H_4C(=NOH)CH_3$ . (Benzophenone, oxime, *p*-phenylmethoxy-).



- Fly spray. 112, 688P, 690P, 693P, 694P, 696P.  
190-625-1011.  
Glyoxime, di-2-furyl-;  $[\text{C}_4\text{H}_5\text{OC}(\text{NOH})]_2$ . ( $\alpha$ -Furil dioxime).  
NT *Bombyx mori* larvae. 559.
- 190-625-1021.  
3-Furaldehyde, oxime;  $(\text{C}_6\text{H}_5\text{O})\text{CH}(\text{NOH})$ . ( $\beta$ -Furfuraldioxime).  
T *Cochliomyia americana* C and P at 0.17%. 944.
- 190-626-950-1021.  
Piperonal, oxime;  $(\text{CH}_3\text{O})_2\text{C}_6\text{H}_4\text{CHNOH}$ . ("Anti" and "Syn" forms).  
NT corn borer. 1120.
- 190-912.  
9-Fluorenone, oxime;  $(\text{C}_{12}\text{H}_9)\text{NOH}$ .  
NT *Cochliomyia americana* C and P. 944.
- 190-951.  
Quinone dioxime;  $\text{C}_6\text{H}_4(\text{:NH})_2$ . 721AP.
- 190-952-1011.  
Benzil, dioxime;  $[\text{C}_6\text{H}_5\text{C}(\text{NOH})]_2$ .  
ST *Bombyx mori* larvae. 559.
- 190-968-1023.  
d-Camphor, oxime.  
HT *Bombyx mori* larvae; T screwworms. 156, 559.
- 190-1001.  
Glyoxime, dimethyl-;  $(\text{CH}_3\text{CNOH})_2$ . (2, 3-Butanedione dioxime; diacetyl dioxime).  
T *Locustana pardalina* and *Normadacris septemfasciata*; MT *Bombyx mori* larvae; ST screwworms. 156, 559, 561, 1144.
- 190-1003.  
Acetone, oxime;  $\text{HONC}(\text{CH}_3)_2$ . (Acetoxime).  
ST codling moth larvae. 915.
- 192-206-951.  
Benzene, 1-nitro-2-nitroso-;  $\text{NO}_2\text{C}_6\text{H}_4\text{NO}$ . (o-Nitro-nitrosobenzene).  
NT *Cochliomyia americana* C and P. 944.
- 192-581-924.  
1-Naphthol, 2-nitroso-;  $\text{C}_{10}\text{H}_7(\text{NO})\text{OH}$ . (1, 2-Naphthoquinone, 2-oxime).  
ST *Cochliomyia americana* C and P, Mexican bean beetle, and Colorado potato beetle. 606, 944.
- 192-581-924.  
2-Naphthol, 1-nitroso-;  $\text{C}_{10}\text{H}_7(\text{NO})\text{OH}$ . (1, 2-Naphthoquinone-1-oxime).  
MT Colorado potato beetle, Mexican bean beetle, codling moth, and mosquito larvae; NT *Tineola bisellella* and *Attagenus piceus*. 487, 606, 739, 1176, 1291, 1481.
- 192-581-951.  
Phenol, p-nitroso-;  $\text{C}_6\text{H}_5\text{NO}_2$ . (Quinone monoxime).  
NT mosquito larvae. 487.
- 192-581-951-1003-1021.  
Thymol, 4-nitroso-;  $(\text{CH}_3)_2\text{CHC}_6\text{H}_3(\text{CH}_3)(\text{OH})\text{NO}$ .  
NT *Cochliomyia americana*. 944.
- 192-582-951.  
Resorcinol, 2, 4-dinitroso-;  $(\text{NO})_2\text{C}_6\text{H}_3(\text{OH})_2$ .  
T screwworms at 0.17-0.33%. 156.
- 192-582-951.  
Resorcinol, 4, 6-dinitroso-;  $(\text{NO})_2\text{C}_6\text{H}_3(\text{OH})_2$ .  
NT codling moth larvae; MT mosquito larvae. 487, 1291.
- 192-681-952.  
Diphenylamine, 4-nitroso-;  $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_4\text{NO}$ . (p-Nitrosodiphenylamine).  
HT mosquito larvae; NT screwworm larvae. 156, 487.
- 192-691-951-1012.  
Aniline, N,N-diethyl-p-nitroso-;  $\text{NOC}_6\text{H}_4\text{N}(\text{C}_2\text{H}_5)_2$ . (N,N-Diethyl-p-nitroso aniline? p-nitrosodiethylaniline).  
MT mosquito larvae; T screwworms. 172, 944.
- 192-691-951-1022.  
Aniline, N,N-dimethyl-p-nitroso-;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{NO}$ . (p-Nitrosodimethylaniline).  
T mosquito larvae; MT codling moth larvae. 487, 1291, 1319.
- 192-951.  
Benzene, nitroso-;  $\text{C}_6\text{H}_5\text{NO}$ .  
HT mosquito larvae. 487.
- 192-951-1011-1020.  
Styrene,  $\beta$ -nitroso-;  $\text{C}_6\text{H}_5\text{CH}:\text{CHNO}$ .  
T *Cochliomyia americana* C and P at 0.17%. 944.
- 194-571-730-1024.  
4-Piperidone, 1-nitroso-2, 2, 6, 6-tetramethyl-;  $(\text{CH}_3)_4\text{C}_4\text{H}_4\text{N}(\text{:O})(\text{CH}_2)_2\text{NO}$ ?  
T screwworm larvae; MT as mothproofing agent. 239, 944.
- 194-732.  
Piperazine, 1, 4-dinitroso-;  $\text{ONN}(\text{CH}_2\text{CH}_2)_2\text{NNO}$ .  
T as mothproofing agent. 239.
- 194-951-961-1021.  
Cyclohexylamine, N-benzyl-N-nitroso-;  $\text{C}_6\text{H}_{11}\text{N}(\text{NO})\text{CH}_2\text{C}_6\text{H}_5$ . (N,N-Nitroso-benzyl cyclohexylamine).  
NT *Mysus porosus* and *Tetranychus telarius*. 772.
- 194-951-1021.  
Aniline, N-methyl-N-nitroso-;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_3)\text{NO}$ . (Methylphenylnitrosoamine; N-methyl-N-nitroso-aniline).  
T screwworms at 0.01-0.03%; MT *Culex quinquefasciatus* larvae. 156, 157.
- 194-952.  
Diphenylamine, N-nitroso-;  $\text{C}_6\text{H}_5\text{N}(\text{NO})\text{C}_6\text{H}_5$ . (p-Diphenylnitrosoamine).  
HT codling moth larvae at 4%; T southern beet webworm, Colorado potato beetle, *Bombyx mori*, and potato leaf-hopper; ST screwworms at 0.67%; NT roaches. 156, 505P, 559, 587, 1212, 1481.
- 194-952-1021.  
Benzylamine, N-nitroso-N-phenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{NO})\text{C}_6\text{H}_5$ . (Benzylphenylnitrosoamine; N-nitroso-N-phenylbenzylamine).  
NT screwworms. 156.
- 194-952-1022.  
Dibenzylamine, N-nitroso-;  $(\text{C}_6\text{H}_5\text{CH}_2)_2\text{NNO}$ .  
T as mothproofing agent. 239.
- 194-952.  
Dicyclohexylamine, N-nitroso-;  $(\text{C}_6\text{H}_{11})_2\text{NNO}$ .  
MT *Culex quinquefasciatus*; NT *Mysus porosus* and *Tetranychus telarius*. 157, 772.
- 195-951.  
Oxides of phenolic amines.  
T as mothproofing compounds. 152P.
- 200-989.  
Cyanic acid, dodecyl ester;  $\text{C}_{12}\text{H}_{25}\text{OCN}$ . (Lauryl cyanate). 593P.
- 201-924.  
Isocyanic acid, 2-naphthyl ester;  $\text{C}_{10}\text{H}_7\text{NCO}$ . (2-Naphthyl isocyanate).  
NT screwworm larvae. 156.
- 206-230-951.  
Morpholine, 4-(p-nitrophenyl)-;  $\text{O}_2\text{NC}_6\text{H}_4\text{N}(\text{CH}_2)_3\text{O}$ .  
NT corn borer and screwworm larvae. 944, 1120.
- 206-258-591-671-851-953-1021.  
Benzenesulfonic acid, 4-benzyloxy-3-nitro-, p-chloro-aniline salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4(\text{NO}_2)\text{SO}_3\text{NH}_2\text{C}_6\text{H}_4\text{Cl}$ . (Sulfonic acid, 4-phenylmethoxy-3-nitrophenyl-p-chloroaniline salt).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 206-258-591-671-953-1022.  
Benzenesulfonic acid, 4-benzyloxy-3-nitro-, toluidine salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4(\text{NO}_2)\text{SO}_3\text{NH}_2\text{C}_6\text{H}_4\text{CH}_3$ . (Benzenesulfonic acid, 3-nitro-4-phenylmethoxy-, toluidine salt).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 206-258-591-952-1021-1218.  
Benzenesulfonic acid, 4-benzyloxy-3-nitro-, sodium salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4(\text{NO}_2)\text{SO}_3\text{Na}$ . (Benzenesulfonic acid, 4-phenylmethoxy-3-nitro-, sodium salt).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 206-258-591-951-1021-1218.  
Metanilic acid, 6-nitro-N-p-tolyl-, sodium salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHC}_6\text{H}_4(\text{NO}_2)\text{SO}_3\text{Na}$ . (Sodium 4-nitro-4'-methyl-diphenylamine-3-sulfonate).  
T screwworms at 0.33-0.67%. 156.
- 206-258-591-951-1218.  
Benzenesulfonic acid, 2-anilino-5-nitro-, sodium salt;  $\text{C}_6\text{H}_5\text{NC}_6\text{H}_4(\text{NO}_2)\text{SO}_3\text{Na}$ . (Sodium 4-nitrodiphenylamine-2-sulfonate).  
T screwworms at 0.33-0.67%. 156.
- 206-258-591-951.  
Benzenesulfonic acid, 4-bromo-3-nitro-;  $\text{BrC}_6\text{H}_4\text{N}$



- (NO<sub>2</sub>)SO<sub>2</sub>H. (3-Nitrobromobenzene-4-sulfonic acid).  
ST screwworms at 0.67%. 156.  
206-258-951-951.  
Benzenesulfonic acid, 2-chloro-5-nitro-; ClC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)SO<sub>2</sub>H. (4-Nitrochlorobenzene-2-sulfonic acid).  
ST screwworms at 0.67%; NT mosquito larvae. 156, 172.  
206-258-951.  
Benzenesulphonic acids, nitro-, CU.  
T as mothproofing agent. 331P, 1176.  
206-258-951-1022.  
p-Toluenesulfonic acid, 3-nitro-, methyl ester; CH<sub>3</sub>-C<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)SO<sub>2</sub>OCH<sub>3</sub>. (Methyl-2-nitro-p-toluene-sulfonate).  
NT *Phlyctenia rubigalis*. 949.  
206-301-950.  
Phenoxathiin, 3-nitro-; (C<sub>12</sub>H<sub>7</sub>OS)NO<sub>2</sub>. (3-Nitrophenothioxin).  
NT mosquito larvae. 487.  
206-301-950-1021.  
Phenoxathiin, 3-methyl-6-nitro-; CH<sub>3</sub>(C<sub>12</sub>H<sub>6</sub>OS)NO<sub>2</sub>. (3-Methyl-6-nitrophenothioxin).  
NT mosquito larvae. 487.  
206-331-951-1021.  
Benzoyl chloride, m-nitro-; C<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)COCl.  
T screwworms at 0.17-0.33%. 156.  
206-331-951-1021.  
Benzoyl chloride, p-nitro-; C<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)COCl.  
NT screwworms. 156.  
206-340-552-951-1011.  
Benzene, 1-iodoso-4-nitro-, acetate; (NO<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>IO:(OOCCH<sub>3</sub>)<sub>2</sub>. (p-Nitroiodosobenzene acetate).  
MT *Culex quinquefasciatus*; NT screwworms and as mothproofing agent. 157, 239, 944.  
206-340-951.  
Benzene, 1-iodoso-2-nitro-; C<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)IO. (o-Iodo-sonitrobenzene).  
T many insects and as mothproofing agent. 110, 172, 239, 1312, 1315P.  
206-340-951.  
Benzene, 1-iodoso-3-nitro-; C<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)IO. (m-Iodo-sonitrobenzene).  
T many species of insects. 110, 1312, 1315P.  
206-340-951.  
Benzene, 1-iodoso-4-nitro-; C<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)IO. (p-Iodo-sonitrobenzene).  
T many species of insects and as mothproofing agent; ST mosquito larvae. 110, 157, 239, 1312, 1315P.  
206-340-951.  
Benzene, iodosonitro-, CU; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>IO. (Mononitro-iodosobenzene).  
T screwworm, tobacco hornworm, European corn borer, and carpet beetle. 1312, 1315P.  
206-341-951.  
Benzene, 1-iodoxy-2-nitro-; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>IO<sub>2</sub>. (o-Iodoxy-nitrobenzene).  
T many species of insects. 110, 1312, 1324P.  
206-341-951.  
Benzene, 1-iodoxy-3-nitro-; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>IO<sub>2</sub>. (m-Iodoxy-nitrobenzene).  
T many species of insects. 110, 1312, 1324P.  
206-341-951.  
Benzene, 1-iodoxy-4-nitro-; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>IO<sub>2</sub>. (p-Iodoxy-nitrobenzene).  
T tobacco hornworm, codling moth larvae, and southern army worm. 110, 1312, 1324P.  
206-341-951.  
Benzene, iodoxynitro-, CU; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>IO<sub>2</sub>.  
T tobacco hornworm, southern army worm, cross-striped cabbage worm, and imported cabbage worm; MT Hawaiian beet webworm and southern beet webworm. 1312.  
206-390-825-951-1021.  
Hydrosulfamine, N-2-furfurylidene-S-(o-nitrophenyl)-; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SN:CH(C<sub>6</sub>H<sub>5</sub>O). (N-Fural-S-(o-nitrophenyl) sulfuramine).  
NT corn borer, mosquito larvae, and as mothproofing agent. 239, 487, 1120, 1291.  
206-390-851-951.  
Hydrosulfamine, S-(4-chloro-2-nitrophenyl)-; ClC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)SNH<sub>2</sub>. (4-Chloro-2-nitrophenylsulfuramine).  
HT mosquito larvae. 487.  
206-390-951.  
Hydrosulfamine, S-(o-nitrophenyl)-; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SNH<sub>2</sub>. (S-(o-Nitrophenyl) sulfuramine).  
T mosquito and codling moth larvae; ST as mothproofing agent; NT corn borer. 239, 487, 1120, 1291.  
206-390-953-1021.  
p-Toluidine, N-(o-nitrophenylmercapto)-; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NHSC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>. (N-p-Toluidine-S-(o-nitrophenyl) sulfuramine; o-nitrophenyl-p-toluidine sulfide?).  
MT codling moth larvae; ST corn borer; NT mosquito larvae. 487, 1120, 1291.  
206-390-953-1021.  
Hydrosulfamine, N-benzylidene-S-(o-nitrophenyl)-; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SN:CHC<sub>6</sub>H<sub>5</sub>. (N-Benzal-S-(o-nitrophenyl) sulfuramine).  
ST as mothproofing agent; NT corn borer and mosquito larvae. 239, 487, 1120, 1291.  
206-401-591-952-1001-1023.  
Thiocyanic acid, 2-benzyloxy-5-tert-butyl-3-nitrobenzyl ester; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)(CH<sub>3</sub>SCN)C(CH<sub>3</sub>)<sub>3</sub>. (Thiocyanic acid, 5-tert-butyl-3-nitro-2-phenylmethoxy-benzyl ester).  
Fly spray. 112, 692P.  
206-401-592-951-1012-1021.  
Thiocyanic acid, 2-[2-(p-nitrophenoxy)ethoxy] ethyl ester; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>SCN. (β-Thiocyanato-β-(p-nitrophenoxy)-diethyl ether).  
Fly spray. 112, 1032P.  
206-401-551-951-1021.  
Thiocyanic acid, 4-chloro-2-nitrophenyl ester; Cl(NO<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>SCN.  
HT mosquito larvae. 487, 488.  
206-401-951-1022.  
Thiocyanic acid, nitrobenzyl ester; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>SCN.  
Ant poison. 1178, 1245P.  
206-402-951-1025.  
m-Xylene, 4-nitro-α, α', α'-tetrathiocyanato-; NO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>[CH(SCN)]<sub>3</sub>. (Thiocyanic acid, 6(?)-nitro-isophthalal ester).  
T lice and caterpillars. 1178, 1247P.  
206-411-951-1021.  
Isothiocyanic acid, nitrophenyl ester; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NCS. (Nitrophenyl isothiocyanate, CU). 575P, 1432.  
206-480-730-740-791-950-1021.  
Benzothiasole, 2-mercapto-6-nitro-, nicotine salt; NO<sub>2</sub>(C<sub>7</sub>H<sub>5</sub>N<sub>2</sub>)SH.C<sub>10</sub>H<sub>7</sub>N<sub>2</sub>. (2-Mercapto-6-nitrobenzothiasole, nicotine salt. 1284P, 1432.  
206-520-581-951.  
Benzenethiol bromide, 4-chloro-2-nitro-? NO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(Cl)SBr. (4-Chloro-2-nitrophenyl sulphur bromide).  
T codling moth larvae. 487, 1291.  
206-541-581-585-952.  
Salicylic acid, 5-(p-nitrophenylazo)-; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>3</sub>(OH)COOH. (4'-Nitro-4-hydroxy azobenzene carboxylic acid (3)).  
ST greenhouse red spider at 2%. 1481.  
206-541-581-924-1021.  
2-Naphthoic acid, 3-hydroxy-4-nitro-; C<sub>10</sub>H<sub>7</sub>(NO<sub>2</sub>)(OH)COOH.  
T *Cochliomyia americana* C and P at 0.67%. 944.  
206-541-581-951-1011-1142.  
Phenol, p-nitro-, copper acetate compound; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH.Cu(OOCCH<sub>3</sub>)<sub>2</sub>. (Copper acetate of 4-nitrophenol). 362P.  
206-541-581-951-1011-1177.  
Phenol, o-nitroacetoxymethyl-, CU; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>(OH)-HgOOCCH<sub>3</sub>? (Mercury o-nitrophenol acetate). 379P.  
206-541-581-951-1011-1244.  
Phenol, p-nitro-, zinc acetate compound; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH.Zn(OOCCH<sub>3</sub>)<sub>2</sub>. (Zinc acetate of 4-nitrophenol). 362P.  
206-541-581-951-1021.  
Salicylic acid, 3-nitro-; NO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(OH)COOH. (2-Hydroxy-3-nitrobenzoic acid).  
ST screwworms at 0.67%. 156.  
206-541-581-951-1021.  
Salicylic acid, 5-nitro-; NO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(OH)COOH. (2-Hydroxy-5-nitrobenzoic acid).  
T screwworms at 0.67%. 156.  
206-541-581-951-1011.  
Glycine, N-(p-nitrophenyl)-; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NHCH<sub>2</sub>COOH. (p-Nitrophenylglycine).  
NT codling moth larvae. 156, 915.  
206-541-581-952-1021.  
Anthranilic acid, N-(o-nitrophenyl)-; NO<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>COOH.  
NT mosquito larvae. 487.  
206-541-781-951-951-1011.

- Acetic acid, (4-chloro-2-nitrophenylmercapto)-;  $\text{ClC}_6\text{H}_4\text{NO}_2\text{SCH}_2\text{COOH}$ .  
HT codling moth larvae. 1291.
- 206-541-841-951.  
Benzoic acid, 2-bromo-3-nitro-;  $\text{BrC}_6\text{H}_3(\text{NO}_2)\text{COOH}$ .  
(2-Bromo-3-nitrobenzoic acid).  
NT European corn borer. 1122.
- 206-541-861-951-1021.  
Benzoic acid, 4-fluoro-3-nitro-;  $\text{NO}_2(\text{F})\text{C}_6\text{H}_4\text{COOH}$ .  
T as mothproofing agent. 411P, 425P, 1175, 1399P.
- 206-541-951-1003-1030.  
Cinnamic acid, *m*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}:\text{CHCOOH}$ .  
ST screwworms at 0.67%. 156.
- 206-541-951-1003-1030.  
Cinnamic acid, *o*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}:\text{CHCOOH}$ .  
NT codling moth. 915.
- 206-541-951-1021.  
Benzoic acid, *m*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOH}$ . (Benzoic acid, 3-nitro-).  
T screwworms and as mothproofing agent. 156, 411P, 425P, 1175, 1399P.
- 206-541-951-1021.  
Benzoic acid, *o*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOH}$ .  
ST screwworms at 0.67%. 156.
- 206-541-951-1021.  
Benzoic acid, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOH}$ .  
T screwworms at 0.67%. 156.
- 206-541-951-1021.  
*p*-Toluic acid, 2-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4(\text{CH}_3)\text{COOH}$ .  
T as mothproofing agent. 329P, 331P, 1176.
- 206-541-951-1021-1162.  
Benzoic acid, *p*-nitro-, ferric salt;  $(\text{O}_2\text{NC}_6\text{H}_4\text{COO})_3\text{Fe}$ . (Ferric-*p*-nitrobenzoate).  
NT *Epidachna borealis*. 1008.
- 206-542-951-1022.  
Phthalic acid, 3-nitro-;  $\text{NO}_2\text{C}_6\text{H}_3(\text{COOH})_2$ .  
ST screwworms at 0.67%; NT European corn borer. 156, 1122.
- 206-542-951-1022.  
Phthalic acid, 4-nitro-;  $\text{NO}_2\text{C}_6\text{H}_3(\text{COOH})_2$ .  
ST screwworms at 0.67%. 156.
- 206-551-571-781-851-951-1001-1011.  
Acetoacetic acid,  $\alpha$ -(4-chloro-2-nitrophenylmercapto)-, ethyl ester;  $\text{CH}_3\text{COCH}[\text{SC}_6\text{H}_3(\text{Cl})\text{NO}_2]\text{COOC}_2\text{H}_5$ .  
HT codling moth larvae; NT mosquito larvae. 487, 1291.
- 206-551-951-1003-1011-1030.  
Cinnamic acid, *p*-nitro-, ethyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}:\text{CHCOOC}_2\text{H}_5$ . (Ethyl *p*-nitrocinnamate).  
NT screwworms and codling moth larvae. 156, 915.
- 206-551-951-1011-1021.  
Benzoic acid, *p*-nitro-, ethyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOC}_2\text{H}_5$ . (Ethyl *p*-nitrobenzoate).  
T screwworms at 0.17-0.33%; ST codling moth. 156, 915.
- 206-551-951-1011-1021.  
Acetic acid, *p*-nitrobenzyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}_2\text{OOCCH}_3$ . (*p*-Nitrobenzyl acetate).  
T screwworms at 0.33-0.67%. 156.
- 206-551-951-1021.  
Formic acid, *p*-nitrophenyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{OOCH}$ . (Formate of 4-nitrophenol). 362P.
- 206-551-951-1022.  
Benzoic acid, *m*-nitro-, methyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOCH}_3$ . (Methyl *m*-nitrobenzoate).  
NT screwworms. 156.
- 206-551-951-1022.  
Benzoic acid, *o*-nitro-, methyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOCH}_3$ . (Methyl *o*-nitrobenzoate).  
NT screwworms. 156.
- 206-551-951-1022.  
Benzoic acid, *p*-nitro-, methyl ester;  $\text{NO}_2\text{C}_6\text{H}_4\text{COOCH}_3$ . (Methyl *p*-nitrobenzoate).  
T screwworms at 0.17-0.33%; NT codling moth. 156, 915.
- 206-551-951-1021.  
Benzaldehyde, *m*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CHO}$ .  
T screwworms at 0.17-0.33%; ST codling moth. 156, 915.
- 206-551-951-1021.  
Benzaldehyde, *o*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CHO}$ . (*o*-Nitrobenzaldehyde).  
T screwworms at 0.17-0.33%. 156.
- 206-561-951-1021.  
Benzaldehyde, nitro-, CU;  $\text{NO}_2\text{C}_6\text{H}_4\text{CHO}$ .  
NT *Agriotes*. 1382.
- 206-571-591-953-1022.  
Benzophenone, *p*-nitrobenzoyloxy-, CU;  $\text{C}_6\text{H}_5\text{OOC}-\text{H}_4\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ . (Ether, benzoylphenyl, *p*-nitrobenzoyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-571-632-952-1021.  
Propiophenone,  $\alpha$ ,  $\beta$ -epoxy- $\beta$ -(*m*-nitrophenyl)-;  $\text{C}_6\text{H}_5\text{CO}(\text{C}_6\text{H}_5\text{O})\text{C}_6\text{H}_4\text{NO}_2$ . ( $\alpha$ -Benzoyl- $\beta$ -(*m*-nitrophenyl) ethylene oxide).  
NT as mothproofing agent. 239.
- 206-571-730-950.  
9(10)-Acridone, 4-nitro-?  $\text{O}:(\text{C}_{15}\text{H}_9\text{N})\text{NO}_2$ .  
(1-Nitro-5(10)-acridone).  
NT mosquito larvae. 487.
- 206-571-730-950-1011.  
Ketone, methyl 5-nitroisquinolyl, CU;  $\text{NO}_2(\text{C}_6\text{H}_4\text{N})-\text{COCH}_3$ . (Aceto 5-nitroisquinoline).  
NT *Pieris rapae*. 635.
- 206-571-740-950-951-1021.  
Carbasole, 9-benzoyl-3-nitro-;  $\text{NO}_2(\text{C}_{15}\text{H}_7\text{N})\text{OOC}_6\text{H}_5$ . (9-Benzoyl-3-nitrocarbasole).  
MT codling moth; NT mosquito larvae. 487, 1291.
- 206-571-781-851-952-1011.  
Acetophenone,  $\alpha$ -(4-chloro-2-nitrophenylmercapto);  $\text{C}_6\text{H}_5\text{COCH}_2\text{SC}_6\text{H}_3(\text{NO}_2)\text{Cl}$ .  
NT mosquito larvae. 487.
- 206-571-781-951-1003.  
2-Propanone, 1-(*o*-nitrophenylmercapto)-;  $\text{NO}_2\text{C}_6\text{H}_4-\text{SCH}_2\text{COCH}_3$ . (Acetonyl-*o*-nitrophenyl sulfide).  
ST codling moth larvae and as mothproofing agent; NT corn borer. 239, 1120, 1291.
- 206-571-912.  
Fluorenone, nitro-, CU;  $\text{O}:(\text{C}_{15}\text{H}_7)\text{NO}_2$ .  
NT as mothproofing agent. 239.
- 206-571-951-1011.  
Acetophenone, *m*-nitro-;  $\text{CH}_3\text{COC}_6\text{H}_4\text{NO}_2$ .  
ST screwworms at 0.67%. 156.
- 206-571-952-1003-1030.  
Chalone, 3-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}:\text{CHCOOC}_6\text{H}_5$ . (*m*-Nitrobenzalacetophenone).  
NT screwworms. 156.
- 206-572-625-950.  
Phthalic anhydride, 3-nitro-;  $\text{NO}_2\text{C}_6\text{H}_3(\text{CO})_2\text{O}$ .  
ST screwworms at 0.67%; NT corn borer. 156, 1122.
- 206-572-740-950.  
Phthalimide, 3-nitro-;  $\text{NO}_2\text{C}_6\text{H}_3:(\text{CO})_2:\text{NH}$ .  
NT screwworms. 156.
- 206-572-740-950.  
Phthalimide, 4-nitro-;  $\text{NO}_2\text{C}_6\text{H}_3:(\text{CO})_2:\text{NH}$ .  
NT corn borer, screwworm, and *Culex quinquefasciatus* larvae. 156, 157, 1120.
- 206-572-740-950-951.  
Phthalimide, *N*-(*o*-nitrophenyl)-;  $\text{C}_6\text{H}_4:(\text{CO})_2:\text{NC}_6\text{H}_4\text{NO}_2$ .  
ST greenhouse red spider at 4%; NT southern army worm at 4%. 1481.
- 206-572-910.  
Anthraquinone, 2-nitro-;  $\text{NO}_2\text{C}_6\text{H}_3:(\text{CO})_2:\text{C}_6\text{H}_4$ . (2-Nitrophenanthroquinone).  
NT *Cochliomyia americana*. 156, 944.
- 206-573-732.  
Barbituric acid, nitro-, CU;  $(\text{C}_6\text{H}_5\text{N}_2\text{O}_2)\text{NO}_2$ ? (Nitrobarbituric acid).  
ST screwworms at 0.67%. 156.
- 206-581-665-851-924-951.  
2-Naphthol, 1-(2-chloro-4-nitrophenylazo)-;  $\text{HOOC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_3(\text{Cl})\text{NO}_2$ . (1-(*o*-Chloro-*p*-nitrophenylazo)-2-naphthol).  
NT corn borer. 1120.
- 206-581-665-924-951.  
1-Naphthol, 4-(*p*-nitrophenylazo)-?  $\text{NO}_2\text{C}_6\text{H}_4\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ . (*p*-Nitrobenzenazo-*a*-naphthol).  
T screwworms at 0.33-0.67%. 156.
- 206-581-665-924-951.  
2-Naphthol, 1-(*p*-nitrophenylazo)-;  $\text{NO}_2\text{C}_6\text{H}_4\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ . (4-Nitrobenzeno-(1-azo-1)-naphthol-2).  
HT mosquito larvae; ST codling moth larvae; NT greenhouse red spider at 4%. 487, 1437P, 1481.
- 206-581-665-924-951-1021.  
2-Naphthol, 1-(2-nitro-*p*-tolylazo)-;  $\text{NO}_2\text{C}_6\text{H}_4-(\text{CH}_3)\text{N}:\text{NC}_{10}\text{H}_6\text{OH}$ .

- NT corn borer. 1120.  
206-581-671-951.  
Phenol, 2-amino-4-nitro-;  $\text{NH}_2(\text{NO}_2)\text{C}_6\text{H}_3\text{OH}$ .  
NT screwworms. 156.  
206-581-671-951-961.  
Phenol, amino-2-cyclohexyl-nitro-, CU;  $(\text{NO}_2)-(\text{NH}_2)(\text{OH})\text{C}_6\text{H}_3(\text{C}_6\text{H}_{11})$ . 1306P.  
206-581-781-924-951.  
2-Naphthol, 1-(o-nitrophenylmercapto)-;  $\text{NO}_2\text{C}_6\text{H}_4-\text{SC}_6\text{H}_4\text{OH}$ . (1-(2-Hydroxy-1-naphthyl)-2-nitrophenyl sulfide)).  
NT corn borer, as mothproofing agent, codling moth, and mosquito larvae. 239, 487, 1120, 1291.  
206-581-842-951.  
Phenol, 2, 6-dibromo-4-nitro-;  $\text{Br}_2(\text{NO}_2)\text{C}_6\text{H}_3\text{OH}$ .  
T screwworms at 0.03-0.05%. 156.  
206-581-852-951.  
Phenol, 2, 6-dichloro-4-nitro-;  $\text{Cl}_2(\text{NO}_2)\text{C}_6\text{H}_3\text{OH}$ .  
HT *Culex quinquefasciatus*; T screwworms at 0.05-0.06%. 156, 157.  
206-581-853-951.  
Phenol, 2-nitro-3, 4, 6-trichloro-;  $\text{C}_6\text{H}_3(\text{Cl}_3)\text{NO}_2$ . (2, 4, 5-Trichloro-6-nitrophenol).  
HT mosquito larvae. 487.  
206-581-924.  
2-Naphthol, 1-nitro-;  $\text{C}_{10}\text{H}_7(\text{NO}_2)\text{OH}$ .  
ST Japanese beetle; NT *Tineola bisselliella*, *Attagenus piceus*, and codling moth larvae. 494, 739, 930.  
206-581-951.  
Phenol, m-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OH}$ .  
HT *Aphis rumicis*; ST screwworms. 156, 1376.  
206-581-951.  
Phenol, o-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OH}$ .  
T houseflies, *Lucilia cuprina* at 0.1%, T screwworms at 0.17-0.33%, and T aphids; ST codling moth larvae. 156, 606, 849, 915, 1002, 1376.  
206-581-951.  
Phenol, p-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OH}$ .  
HT *Aphis rumicis*; T codling moth larvae and as mothproofing agent; ST Japanese beetle. 404P, 494, 870P, 915, 1175, 1376.  
206-581-951-994.  
Phenols, nitro-p-tert octyl-, CU. (p-Tertiary octyl phenols having at least one nitro group substituted in the benzene ring). 1052P.  
206-581-951-1021.  
m-Cresol, 2-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ .  
HT *Aphis rumicis*. 1376.  
206-581-951-1021.  
m-Cresol, 4-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ . (3-Methyl-4-nitrophenol).  
HT *Aphis rumicis*. 1376.  
206-581-951-1021.  
m-Cresol, 5-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ . (3-Methyl-5-nitrophenol).  
HT *Aphis rumicis*. 1376.  
206-581-951-1021.  
m-Cresol, 6-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ . (3-Methyl-6-nitrophenol).  
NT *Aphis rumicis*. 1376.  
206-581-951-1021.  
o-Cresol, 3-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ .  
MT *Aphis rumicis*. 1376.  
206-581-951-1021.  
o-Cresol, 5-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ . (2-Methyl-5-nitrophenol).  
MT *Aphis rumicis*. 1377.  
206-581-951-1021.  
p-Cresol, 3-nitro-;  $\text{NO}_2(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ . (4-Methyl-3-nitrophenol).  
HT *Aphis rumicis*. 1376.  
206-581-951-1177-1325.  
Phenol, p-nitrohydroxymercuri-, CU;  $\text{HOOC}_6\text{H}_4(\text{NO}_2)-\text{HgOH}$ ? (Mercury p-nitrophenol). 379P.  
206-582-665-952.  
Resorcinol, 4-(m-nitrophenylazo)-;  $\text{NO}_2\text{C}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_3(\text{OH})_2$ . (2, 4-Dihydroxy-3'-nitro azobenzene).  
ST greenhouse red spider at 2%; NT southern army worm at 4%. 1481.  
206-582-665-952.  
Resorcinol, 4-(p-nitrophenylazo)-;  $\text{NO}_2\text{C}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_3(\text{OH})_2$ . (2, 4-Dihydroxy-4'-nitro azobenzene).  
MT mosquito larvae; ST greenhouse red spider at 2%; NT southern army worm at 4%. 487, 488, 1437P, 1481.  
206-582-665-952-1021.  
Orcinol, p-nitrophenylazo-, CU;  $\text{NO}_2\text{C}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_3\text{OH}(\text{CH}_3)_2$ . (Nitrobenzene azo orcinol).  
ST greenhouse red spider at 1% and MT at 2%. 1481.  
206-582-781-952.  
Resorcinol, 4-(o-nitrophenylmercapto)-;  $(\text{OH})_2\text{C}_6\text{H}_3\text{SC}_6\text{H}_4\text{NO}_2$ . (2, 4-Dihydroxy-2'-nitrodiphenyl sulfide).  
MT codling moth larvae; NT mosquito larvae, corn borer, and as mothproofing agent. 239, 487, 1120, 1291.  
206-582-855-953-1021.  
m-Cresol, a-(3, 5-dichloro-2-hydroxyphenyl)-a-(m-nitrophenyl)-2, 4, 6-trichloro-;  $\text{CH}[\text{Cl}_2\text{C}_6\text{H}_3(\text{OH})]_2-[\text{Cl}_2\text{C}_6\text{H}_3(\text{OH})]\text{C}_6\text{H}_4\text{NO}_2$  (Methane, 2, 4, 6, 3', 5'-pentachloro-3, 2'-dihydroxy-3'-nitrotriphenyl-).  
T as mothproofing agent. 439P, 1179, 1453, 1454P.  
206-582-855-953-1021.  
m-Cresol, a-(3, 5-dichloro-2-hydroxyphenyl)-a-(p-nitrophenyl)-2, 4, 6-trichloro-;  $\text{CH}[\text{Cl}_2\text{C}_6\text{H}_3(\text{OH})]_2-[\text{Cl}_2\text{C}_6\text{H}_3(\text{OH})]\text{C}_6\text{H}_4\text{NO}_2$  (Methane, 2, 4, 6, 3', 5'-pentachloro-3, 2'-dihydroxy-4'-nitrotriphenyl-).  
T as mothproofing agent. 439P, 1179, 1454P.  
206-588-951-1196.  
Phenol, 2-nitro-, potassium derivative;  $\text{C}_6\text{H}_4(\text{NO}_2)-\text{OK}$ . (o-Nitrophenol potassium salt).  
T screwworms at 0.17-0.33%. 156.  
206-588-951-1142-1389.  
Phenol, 4-nitro-, copper sulfate compound;  $\text{NO}_2\text{C}_6\text{H}_4\text{OH}.\text{CuSO}_4$ . 362P.  
206-588-951-1218.  
Phenol, 2-nitro-, sodium derivative;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{ONa}$ . (o-Nitrophenol sodium salt).  
T screwworms at 0.17-0.33%. 156.  
206-588-951-1218.  
Phenol, 4-nitro-, sodium derivative;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{ONa}$ . (p-Nitrophenol sodium salt).  
T screwworms at 0.17-0.33%. 156.  
206-588-951-1244-1291.  
Phenol, 4-nitro-, zinc chloride compound;  $\text{OHC}_6\text{H}_4-\text{NO}_2.\text{ZnCl}_2$ . 362P.  
206-591-671-951-1011.  
p-Phenetidine, 2-nitro-;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4(\text{NO}_2)\text{NH}_2$ . (3-Nitro-4-aminophenetole).  
ST codling moth; NT screwworms. 156, 915.  
206-591-671-951-1011.  
p-Phenetidine, nitro-, CU;  $\text{NO}_2(\text{C}_6\text{H}_5\text{O})\text{C}_6\text{H}_5\text{NH}_2$ .  
NT Colorado potato beetle and Mexican bean beetle. 606.  
206-591-671-951-1021.  
o-Anisidine, 4-nitro-;  $\text{CH}_3\text{OC}_6\text{H}_4(\text{NO}_2)\text{NH}_2$ . (5-Nitro-2-aminoanisole).  
T screwworms at 0.33-0.67%. 156.  
206-591-671-951-1021.  
o-Anisidine, 5-nitro-;  $\text{CH}_3\text{OC}_6\text{H}_4(\text{NO}_2)\text{NH}_2$ . (4-nitro-2-aminoanisole).  
ST screwworms at 0.67%. 156.  
206-591-671-951-1021.  
p-Anisidine, 2-nitro-;  $\text{CH}_3\text{OC}_6\text{H}_4(\text{NO}_2)\text{NH}_2$ . (3-Nitro-4-aminoanisole).  
ST greenhouse red spider at 4%; NT screwworms and bean aphid. 156, 1481.  
206-591-681-951-975-1027.  
Aryl aminonitro ethers, CU;  $\text{Ar}(\text{OC}_6\text{H}_5)_x\text{NHC}_6\text{H}_5$ . 699P.  
206-591-701-951-1022.  
Benzonitrile, 2-methoxy-6-nitro-;  $\text{NO}_2(\text{OCH}_3)\text{C}_6\text{H}_4-\text{CN}$ .  
MT mosquito larvae. 172.  
206-591-841-952-1001-1021.  
Ether, 2-bromo-4-tert-butylphenyl p-nitrobenzyl;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4(\text{Br})\text{C}(\text{CH}_3)_3$ .  
Fly spray. 112, 688P.  
206-591-841-952-1021.  
Ether, p-bromophenyl p-nitrobenzyl;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_2-\text{OC}_6\text{H}_4\text{Br}$ .  
Fly spray. 112, 688P.  
206-591-841-952-1021.  
Ether, p-bromobenzyl p-nitrophenyl;  $\text{O}_2\text{NC}_6\text{H}_4\text{OCH}_2-\text{C}_6\text{H}_4\text{Br}$ .  
Fly spray. 112, 688P.

- 206-591-851-952.  
Ether, *o*-chlorophenyl *p*-nitrophenyl;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_4\text{NO}_2$ . (2-Chloro-4'-nitro-diphenyl ether; phenyl ether, 2-chloro-4'-nitro-).  
MT fly spray. 112, 687P.
- 206-591-851-952.  
Ether, *p*-chlorophenyl *p*-nitrophenyl;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_4\text{NO}_2$ . (*p*-Nitro-*p*'-chlorodiphenyl oxide). 687P.
- 206-591-851-952-1021.  
Ether, benzyl 4-chloro-2-nitrophenyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{Cl})\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-851-952-1021.  
Ether, *o*-chlorobenzyl *p*-nitrophenyl;  $\text{ClC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-851-952-1021.  
Ether, *p*-chlorophenyl *p*-nitrobenzyl;  $\text{ClC}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-881-952-1021.  
Phenyl ethers having an aromatically bound nitro group said compound having at least one halogen substituent of a relative weight above thirty attached to an aromatic ring.  
Fly spray. 112, 688P.
- 206-591-924-951-1021.  
Ether, 1-naphthylmethyl *p*-nitrophenyl;  $\text{C}_{10}\text{H}_7\text{CH}_2\text{OC}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-924-951-1021.  
Ether, benzyl 2-(1-nitro) naphthyl;  $\text{C}_{10}\text{H}_7\text{CH}_2\text{OC}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-924-951-1021.  
Ether, 2-naphthyl *p*-nitrobenzyl;  $\text{C}_{10}\text{H}_7\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-924-951-1021.  
Ether, *p*-nitrophenyl 2-tetrahydronaphthyl-methyl;  $\text{C}_{10}\text{H}_{11}\text{CH}_2\text{OC}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-951-980.  
Ether, dodecyl *p*-nitrophenyl;  $\text{C}_{12}\text{H}_{25}\text{OC}_6\text{H}_4\text{NO}_2$ . (Lauryl *p*-nitrophenyl ether).  
ST Colorado potato beetle and Mexican bean beetle. 606.
- 206-591-951-993.  
Ether, octyl *p*-nitrophenyl;  $\text{CH}_3(\text{CH}_2)_7\text{OC}_6\text{H}_4\text{NO}_2$ . (*n*-Octyl *p*-nitrophenyl ether).  
MT Colorado potato beetle and Mexican bean beetle. 606.
- 206-591-951-1011.  
Phenetole, *m*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_5$ .  
T screwworms at 0.10-0.17%. 156.
- 206-591-951-1011.  
Phenetole, *o*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_5$ . (Ethyl *o*-nitrophenyl ether).  
T *Culex quinquefasciatus* larvae and T screwworms at 0.05-0.08%. 156, 157.
- 206-591-951-1011.  
Phenetole, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_5$ .  
HT Colorado potato beetle, Mexican bean beetle, and screwworms; T Japanese beetle; MT *Culex quinquefasciatus* and silkworm larvae. 156, 157, 494, 559, 606, 1080, 1150.
- 206-591-951-1021.  
Anisole, *m*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OCH}_3$ . (1-Methoxy-3-nitrobenzene).  
T screwworms at 0.03-0.05%. 156.
- 206-591-951-1021.  
Anisole, *o*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OCH}_3$ . (1-Methoxy-2-nitrobenzene).  
HT screwworms; T aphids; MT *Bombyx mori* larvae; NT codling moth larvae. 156, 555, 561, 1376.
- 206-591-951-1021.  
Anisole, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{OCH}_3$ . (1-Methoxy-4-nitrobenzene).  
HT screwworms at 0.01-0.03%; T aphids. 156, 1376.
- 206-591-952.  
Ether, *o*-nitrophenyl phenyl;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NO}_2$ .  
ST screwworms at 0.67%. 156.
- 206-591-952.  
Ether, *p*-nitrophenyl phenyl;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NO}_2$ .  
T houseflies at 2% in kerosene; ST screwworms at 0.67%. 112, 156, 687P.
- 206-591-952.  
Ethers, nitrophenyl, CU.  
T as fly spray. 112, 687P.
- 206-591-952-961-1021.  
Ether, benzyl 4-cyclohexyl-2-nitrophenyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{NO}_2)\text{C}_6\text{H}_{11}$ .  
Fly spray. 112, 691P.
- 206-591-952-983-1021.  
Ether, *p*-nitrobenzyl 4-(1, 1, 3, 3-tetramethyl-butyl)-phenyl-;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{C}(\text{CH}_3)_3\text{C}(\text{CH}_3)_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1001.  
Ether, *p*-*tert*-butylphenyl *o*-nitrophenyl;  $\text{NO}_2\text{C}_6\text{H}_4\text{OC}_6\text{H}_4\text{C}(\text{CH}_3)_3$ . (*o*-nitrophenyl *p*-tertiary butyl phenyl oxide). 687P.
- 206-591-952-1001-1021.  
Ether, *p*-*tert*-butylphenyl *p*-nitrobenzyl;  $(\text{CH}_3)_3\text{CC}_6\text{H}_4\text{OC}_6\text{H}_4\text{NO}_2$ . (4-Nitrobenzyl 4-tertiary-butyl-phenyl ether).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P, 1199P.
- 206-591-952-1021.  
Ether, *p*-nitrobenzyl phenyl-;  $\text{C}_6\text{H}_5\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1021.  
Ethers, nitrobenzyl phenyl-CU.  
Fly spray. 112, 694P.
- 206-591-952-1021.  
Ether, *p*-nitrophenyl *o*-tolyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_6\text{H}_4\text{NO}_2$ . (Phenyl ether, 2-methyl-4'-nitro-; 4-nitro-2'-methyl diphenyl ether).  
MT as fly spray. 112, 687P.
- 206-591-952-1021.  
Ether, benzyl *o*-nitrophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1021.  
Ether, benzyl *p*-nitrophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1022.  
Ether, *p*-nitrobenzyl *m*-tolyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1022.  
Ether, *p*-nitrobenzyl *o*-tolyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1022.  
Ether, benzyl 4-nitro-*o*-tolyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{CH}_3)\text{NO}_2$ . (Ether, benzyl 2-methyl-4-nitrophenyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1022.  
Ether, Benzyl 6-nitro-*o*-tolyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{CH}_3)\text{NO}_2$ . (Ether, benzyl 2-methyl-6-nitrophenyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-952-1022.  
Ether, benzyl 3-nitro-*p*-tolyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{CH}_3)\text{NO}_2$ . (Ether, benzyl 4-methyl-3-nitrophenyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-953.  
Ether, 2-biphenyl *p*-nitrophenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_6\text{H}_4\text{NO}_2$ . (*p*-Nitro-*o*'-phenyl diphenyl oxide). 687P.
- 206-591-953-1021.  
Ether, 2-biphenyl *p*-nitrobenzyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-953-1022.  
Ether, *p*-benzylphenyl *p*-nitrobenzyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_4\text{NO}_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-591-954-1193-1325.  
Phosphonium hydroxide, (*p*-nitrophenoxo)triphenyl-;  $(\text{C}_6\text{H}_5)_3\text{P}(\text{NO}_2\text{C}_6\text{H}_4\text{O})\text{POH}$ .  
T as mothproofing agent. 441P, 1179.
- 206-592-952-1022.  
Ether, 4-methoxy-3-nitrobenzyl phenyl-;  $\text{C}_6\text{H}_5\text{OCH}_2\text{C}_6\text{H}_3(\text{NO}_2)\text{OCH}_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 206-625-851-950.  
Dibenzofuran, 3-chloro-7-nitro-;  $\text{Cl}(\text{C}_{10}\text{H}_6\text{O})\text{NO}_2$ .

- HT codling moth larvae; NT mosquito larvae. 487, 1291.
- 206-625-950.  
Dibenzofuran, 2-nitro-;  $(C_{12}H_7O)NO_2$ .  
NT mosquito larvae. 487.
- 206-625-950.  
Dibenzofuran, 3-nitro-;  $(C_{12}H_7O)NO_2$ . (3-Nitro-diphenylene oxide).  
NT screwworms. 156.
- 206-625-950-961.  
Dibenzofuran, 7-nitro 1, 2, 3, 4-tetrahydro-;  $(C_{12}H_{11}O)NO_2$ .  
ST mosquito larvae. 487.
- 206-650-952.  
Triasene, 3-*p*-nitrophenyl-1-phenyl;  $C_6H_5N:NNHC_6H_5NO_2$ ? (*p*-Nitrophenyl-diasoaminobenzene). 341P.
- 206-657-951.  
Hydrasine, *p*-nitrophenyl-;  $NO_2C_6H_4NHNH_2$ . (*p*-Nitrophenylhydrazine).  
T screwworms at 0.17-0.33%. 156.
- 206-657-951-1291.  
Hydrasine, *p*-nitrophenyl-, hydrochloride;  $NO_2C_6H_4NHNH_2.HCl$ .  
T screwworms at 0.10-0.17%. 156.
- 206-659-952-1021.  
Benzaldehyde, *o*-nitro-, phenylhydrazone;  $NO_2C_6H_4-CH:NHC_6H_5$ .  
NT screwworms. 156.
- 206-665-871-952.  
Azobenzene, 4-iodo-4'-nitro-;  $IC_6H_4N:NC_6H_4NO_2$ . (*p*-Iodo-*p*'-nitroazobenzene).  
HT harmful insects. 110, 1440P.
- 206-665-871-952-1021.  
Toluene, 2-(*p*-iodophenylazo)-5-nitro-;  $IC_6H_4N:NC_6H_4(CH_3)(NO_2)$ . (Azobenzene, 4-iodo-2'-methyl-4'-nitro-).  
HT harmful insects. 110, 1440P.
- 206-665-952.  
Azobenzene, *p*-nitro-;  $NO_2C_6H_4N:NC_6H_5$ .  
T screwworms at 0.10-0.17%. 156.
- 206-668-1021.  
Guandine, nitro-;  $NH_2C:(NH)NHNH_2$ .  
T aphids; MT as mothproofing agent; NT codling moth and screwworm larvae. 156, 239, 915, 1152.
- 206-671-841-951.  
Aniline, 2-bromo-4-nitro-;  $NO_2C_6H_4(NH_2)Br$ .  
HT greenhouse red spider at 4%. 1481.
- 206-671-851-951.  
Aniline, 2-chloro-4-nitro-;  $NH_2C_6H_4(Cl)NO_2$ .  
HT greenhouse red spider at 4% and HT mosquito larvae; MT codling moth larvae; NT screwworm larvae. 156, 487, 1291, 1481.
- 206-671-851-951.  
Aniline, 4-chloro-2-nitro-;  $NH_2C_6H_4(NO_2)Cl$ .  
HT greenhouse red spider at 4%; NT screwworms. 156, 1481.
- 206-671-852-951.  
Aniline, 2, 6-dichloro-4-nitro-;  $Cl_2(NO_2)C_6H_3NH_2$ .  
ST greenhouse red spider at 4% and ST Japanese beetle; NT screwworms and *Epilachna borealis*. 156, 494, 1008, 1481.
- 206-671-924.  
2-Naphthylamine, 1-nitro-;  $NO_2C_{10}H_7NH_2$ .  
T codling moth and Japanese beetle; MT mosquito larvae; ST greenhouse red spider at 4%; NT *Tineola bisselliella*, *Attageus piceus*, and NT bean aphid at 4%. 487, 488, 494, 739, 915, 1481.
- 206-671-951.  
Aniline, *m*-nitro-;  $NO_2C_6H_4NH_2$ .  
ST codling moth larvae at 4% and ST Japanese beetle; NT screwworms. 156, 494, 915, 1481.
- 206-671-951.  
Aniline, *o*-nitro-;  $NO_2C_6H_4NH_2$ . (1-Amino-2-nitrobenzene).  
HT mosquito larvae; MT screwworms; ST codling moth at 4%; NT *Melanopus m. mexicanus*. 156, 487, 1150, 1481.
- 206-671-951.  
Aniline, *p*-nitro-;  $NO_2C_6H_4NH_2$ .  
MT mosquito and screwworm larvae; ST codling moth larvae. 156, 487, 915, 1481.
- 206-671-951-1021.  
*o*-Toluidine, 4-nitro-;  $NO_2C_6H_4(CH_3)NH_2$ . (4-Nitro-2-methyl aniline).  
MT codling moth at 4%; NT bean aphid at 4%. 1481.
- 206-671-951-1021.  
*o*-Toluidine, 5-nitro-;  $CH_3C_6H_4(NO_2)NH_2$ . (4-Nitro-2-aminotoluene; 2-methyl-5-nitroaniline).  
NT screwworms and *Epilachna borealis*. 156, 1008.
- 206-671-951-1021.  
*o*-Toluidine, 6-nitro-;  $CH_3C_6H_4(NH_2)NO_2$ . (6-Nitro-2-methyl aniline).  
HT greenhouse red spider at 4%; NT bean aphid at 4%. 1481.
- 206-671-951-1021.  
*p*-Toluidine, 2-nitro-;  $NH_2C_6H_4(NO_2)CH_3$ . (4-Methyl-2-nitroaniline; *m*-nitro-*p*-toluidine).  
HT greenhouse red spider at 4% and HT mosquito larvae; T Japanese beetle and codling moth larvae; ST bean aphid at 4%; NT *Epilachna borealis* and screwworms. 156, 487, 494, 915, 1008, 1291, 1481.
- 206-671-951-1022.  
2, 4-Xylydine, 6-nitro-;  $(CH_3)_2C_6H_3(NH_2)NO_2$ . (6-Nitro-2, 4-dimethyl aniline).  
HT codling moth at 4%. 1481.
- 206-672-951.  
*o*-Phenylenediamine, 4-nitro-;  $NO_2C_6H_4(NH_2)_2$ . (4-Nitro phenylene diamine-(1, 2)).  
ST greenhouse red spider at 4%; NT bean aphid at 4%. 1481.
- 206-681-851-952.  
Diphenylamine, 4-chloro-2-nitro-;  $C_6H_5NHC_6H_4(Cl)NO_2$ . (4-Chloro-2-nitrodiphenylamine).  
HT *Culex quinquefasciatus* and codling moth larvae; MT corn borer. 157, 487, 488, 1120, 1291.
- 206-681-851-952.  
Diphenylamine, 4'-chloro-2-nitro-;  $ClC_6H_4NHC_6H_5NO_2$ .  
ST greenhouse red spider at 4%; NT bean aphid at 4%. 1481.
- 206-681-851-951-1022.  
Cyclohexylamine, *o*-methyl-*N*-(*p*-nitrobenzyl)-;  $CH_3-C_6H_{10}NECH_2C_6H_4NO_2$ . (*N*-*p*-Nitrobenzyl-*o*-methyl cyclohexylamine).  
NT *Myrsus porosus* and *Tetranychus telarius*. 772.
- 206-681-851-1021.  
Aniline, *N*-methyl-*p*-nitro-;  $NO_2C_6H_4NHCH_3$ . (*p*-Nitromethyl aniline).  
ST greenhouse red spider at 4%; NT bean aphid at 4%. 156, 1481.
- 206-681-953.  
Diphenylamine, 2-nitro-;  $NO_2C_6H_4NHC_6H_5$ .  
ST greenhouse red spider and codling moth at 4%; NT screwworms. 156, 1481.
- 206-681-952.  
Diphenylamine, 4-nitro-;  $NO_2C_6H_4NHC_6H_5$ .  
NT screwworms. 156.
- 206-681-952-1021.  
Benzylamine, *N*-(*o*-nitrophenyl)-;  $C_6H_5CH_2NHC_6H_4NO_2$ . (*N*-Benzyl-2-nitro aniline).  
ST codling moth at 4%; NT southern army worm at 4%. 1481.
- 206-681-952-1021.  
*p*-Toluidine, *N*-(*p*-nitrophenyl)-;  $CH_3C_6H_4NHC_6H_4NO_2$ . (4'-Methyl-4-nitrodiphenylamine).  
NT *Cochliomyia americana* C and P. 156, 944.
- 206-691-951-1012.  
Aniline, *N,N*-diethyl-*o*-nitro-;  $NO_2C_6H_4(C_2H_5)_2$ . (2-Nitro-diethyl aniline).  
MT greenhouse red spider at 4%; NT bean aphid at 4%. 1481.
- 206-691-951-1022.  
Aniline, *N,N*-dimethyl-*m*-nitro-;  $NO_2C_6H_4N(CH_3)_2$ . (*m*-Nitrodimethyl aniline).  
NT screwworms at 0.67%. 156.
- 206-691-951-1022.  
Aniline, *N,N*-dimethyl-*p*-nitro-;  $NO_2C_6H_4N(CH_3)_2$ . (*p*-Nitrodimethyl aniline).  
NT screwworms. 156.
- 206-701-851-863-951-1022.  
*m*-Tolunitrile, 4-chloro-5-nitro-*a,s,e*-trifluoro-;  $CF_3C_6H_3(CN)(Cl)NO_2$ . (1-Chloro-3-trifluoro-methyl-4-cyano-6-nitro-benzene).

- MT Colorado potato beetle and Mexican bean beetle. 606.
- 206-701-951-1011.  
 $\alpha$ -Tolunitrile, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}_2\text{CN}$ . (*p*-Nitrophenylacetonitrile; *p*-nitrotolunitrile).  
 HT codling moth and screwworm larvae; ST mosquito larvae. 156, 172, 1291.
- 206-701-951-1021.  
 Bensonitrile, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CN}$ .  
 HT screwworms at 0.01-0.03% and HT *Culex quinquefasciatus*. 156, 157.
- 206-730-851-950.  
 Quinoline, 8-chloro-6-nitro-;  $\text{NO}_2(\text{C}_6\text{H}_4\text{N})\text{Cl}$ . (6-Nitro-8-chloro-quinoline).  
 MT codling moth at 4%. 1481.
- 206-730-950.  
 Quinoline, 2-nitro-;  $(\text{C}_6\text{H}_5\text{N})\text{NO}_2$ . (*o*-Nitroquinoline).  
 NT *Pieris rapae*. 635.
- 206-730-950.  
 Quinolines, 5-nitro-;  $(\text{C}_6\text{H}_5\text{N})\text{NO}_2$ . (Ana nitroquinoline).  
 ST *Pieris rapae*. 635.
- 206-730-950.  
 Quinoline, 6-nitro-;  $(\text{C}_6\text{H}_5\text{N})\text{NO}_2$ .  
 HT greenhouse red spider at 4% and HT screwworms and *Culex quinquefasciatus*; NT codling moth larvae. 156, 157, 915, 1481.
- 206-730-950  
 Quinoline, 8-nitro-;  $(\text{C}_6\text{H}_5\text{N})\text{NO}_2$ .  
 HT screwworms at 0.03-0.05%; T *Culex quinquefasciatus*; MT *Phormia regina*, *Cochliomyia macellaria*, and *Lucilia sericata*; ST greenhouse red spider at 4%; NT bean aphid at 4%. 156, 157, 806, 1481.
- 206-730-950-1341.  
 Quinolines, 5-nitro-, nitrate;  $(\text{C}_6\text{H}_5\text{N})\text{NO}_2\cdot\text{HNO}_3$ . (Ana nitroquinoline nitrate).  
 NT *Pieris rapae*. 635.
- 206-732-950-952.  
 Quinoxaline, 2-(*p*-nitrophenyl)-3-phenyl-;  $(\text{C}_6\text{H}_5)-(\text{C}_6\text{H}_4\text{N}_2)(\text{C}_6\text{H}_5\text{NO}_2)$ .  
 NT as mothproofing agent. 239.
- 206-732-950-952.  
 Quinoxaline, 2, 3-diphenyl-6-nitro-;  $\text{NO}_2(\text{C}_6\text{H}_5\text{N}_2)-(\text{C}_6\text{H}_5)_2$ .  
 NT as mothproofing agent. 239.
- 206-740-950.  
 Carbazole, 3-nitro-;  $(\text{C}_{12}\text{H}_9\text{N})\text{NO}_2$ .  
 HT codling moth larvae; NT mosquito larvae. 487, 1291.
- 206-781-952-1021.  
 Sulfide, benzyl 4-nitrophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{SC}_6\text{H}_4\text{NO}_2$ .  
 Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 206-791-951.  
 Benzenethiol, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{SH}$ . (*p*-Nitrophenylmercaptan; *p*-nitrothiophenol).  
 T *Culex quinquefasciatus*; NT screwworms. 156, 157, 172, 1178.
- 206-801-951-989-1022-1389.  
 Sulfonium methyl sulfate, laurylmethyl(*p*-nitrophenyl)-;  $\text{C}_{12}\text{H}_{25}(\text{CH}_2)(\text{NO}_2\text{C}_6\text{H}_4)\text{SCH}_2\text{SO}_4$ . (*p*-Nitrophenylmethyl lauryl-sulfonium methoxysulfate). 526P.
- 206-841-951.  
 Benzene, 1-bromo-2-nitro-;  $\text{BrC}_6\text{H}_4\text{NO}_2$ . (*o*-Nitro-bromobenzene).  
 HT screwworms at 0.05-0.08%; ST codling moth larvae. 156, 915.
- 206-841-951.  
 Benzene, 1-bromo-3-nitro-;  $\text{BrC}_6\text{H}_4\text{NO}_2$ . (*m*-Nitro-bromobenzene).  
 HT screwworms at 0.03-0.05%; NT codling moth larvae. 156, 915.
- 206-841-951.  
 Benzene, 1-bromo-4-nitro-;  $\text{BrC}_6\text{H}_4\text{NO}_2$ . (*p*-Nitro-bromobenzene).  
 HT screwworms at 0.03-0.05%; T mosquito and codling moth larvae. 156, 488, 915.
- 206-841-951-1021.  
 Toluene,  $\alpha$ -bromo-4-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}_2\text{Br}$ . (*p*-Nitrobenzyl bromide).  
 HT *Culex quinquefasciatus*. 157.
- 206-842-951-1011.  
 Benzene, (1, 2-dibromo-2-nitroethyl)-;  $\text{C}_6\text{H}_5\text{CHBrCHBrNO}_2$ . ( $\alpha,\beta$ -Dibromo- $\beta$ -nitroethyl-benzene).  
 T *Cochliomyia americana* C and F at 0.08%; NT corn borer and as mothproofing agent. 239, 915, 932, 944, 1120.
- 206-842-951-1021.  
 Toluene,  $\alpha,\alpha$ -dibromo-*p*-nitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{CHBr}_2$ . (*p*-Nitrobenzyl bromide).  
 T screwworms at 0.10-0.17%. 156.
- 206-843-1021.  
 Bromopierin;  $\text{CBr}_2\text{NO}_2$ .  
 ST *Chrysomphalus aurantii*. 268.
- 206-851-924.  
 Naphthalene, 1-chloro-nitro-, CU;  $\text{C}_{10}\text{H}_7\text{Cl}(\text{NO}_2)$ . ( $\alpha$ -Chloronitronaphthalene). 809P.
- 206-851-924.  
 Naphthalene, 2-chloro-nitro-, CU;  $\text{C}_{10}\text{H}_7\text{Cl}(\text{NO}_2)$ . ( $\beta$ -Chloronitronaphthalene). 809P.
- 206-851-951.  
 Benzene, 1-chloro-2-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (*o*-Chlor-nitro-benzene).  
 HT *Aphis rumicis* and screwworms; T Japanese beetle; NT codling moth. 156, 494, 915, 1376.
- 206-851-951.  
 Benzene, 1-chloro-3-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (*m*-Chlor-nitro-benzene).  
 HT *Aphis rumicis* and screwworms. 156, 915, 1376.
- 206-851-951.  
 Benzene, 1-chloro-4-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (*p*-Chlor-nitro-benzene).  
 HT *Aphis rumicis* and screwworms; T noctuid caterpillars, codling moth, Japanese beetle, and as mothproofing agent; NT *Apriotes*. 156, 494, 897, 915, 930, 986, 1179, 1376, 1382.
- 206-851-951-1021.  
 Toluene,  $\alpha$ -chloro-*m*-nitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{CH}_2\text{Cl}$ . (*m*-Nitro-benzyl-chloride).  
 HT *Aphis rumicis*. 1376.
- 206-851-951-1021.  
 Toluene,  $\alpha$ -chloro-*o*-nitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{CH}_2\text{Cl}$ . (*o*-Nitro-benzyl-chloride).  
 HT *Aphis rumicis*. 1376.
- 206-851-951-1021.  
 Toluene,  $\alpha$ -chloro-*p*-nitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{CH}_2\text{Cl}$ . (*p*-Nitro-benzyl-chloride).  
 ST *Aphis rumicis*. 1376.
- 206-852-951.  
 Benzene, 1, 2-dichloro-4-nitro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NO}_2$ . (3, 4-Dichloronitrobenzene).  
 HT *Culex quinquefasciatus* and screwworms. 156, 157.
- 206-852-951.  
 Benzene, 1,3-dichloro-4-nitro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NO}_2$ . (2, 5-Dichloronitrobenzene).  
 HT screwworms at 0.05-0.08%. 156.
- 206-852-951.  
 Benzene, 1, 4-dichloro-2-nitro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NO}_2$ .  
 HT *Aphis rumicis*. 1376.
- 206-852-951.  
 Benzene, dichloro-nitro-, CU;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NO}_2$ . (Mononitrodichlorobenzene).  
 T lice and cockroaches; NT codling moth. 492, 930.
- 206-852-951-1021.  
 Toluene,  $\alpha,\alpha$ -dichloro-*m*-nitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)\text{CHCl}_2$ . (*m*-Nitrobenzyl chloride).  
 T screwworms at 0.10-0.17%. 156.
- 206-852-1003.  
 Propane, 1, 1-dichloro-1-nitro-;  $\text{CH}_3\text{CH}_2\text{CCl}_2\text{NO}_2$ .  
 HT *Tribolium confusum*. 1155.
- 206-852-1011.  
 Ethane, 1, 1-dichloro-1-nitro-;  $\text{CH}_3\text{C}(\text{NO}_2)\text{Cl}_2$ . ("Ethide").  
 T grain insects. 949, 1061, 1067, 1144, 1155, 1352.
- 206-853-1011.  
 Ethane, dinitro-tetrachloro-, CU;  $[\text{C}(\text{NO}_2)\text{Cl}_2]_2$ .  
 HT many insects. 769P.
- 206-853-1021.  
 Chloropierin;  $\text{OCl}_2\text{NO}_2$ .  
 T root-knot nematodes and many insects; MT codling moth. 568, 915, 1382.
- 206-855-951.  
 Benzene, nitro-pentachloro-;  $\text{NO}_2\text{C}_6\text{Cl}_5$ . 353P.
- 206-857-1027.  
 Chloronitroparaffins;  $\text{RC}(\text{NO}_2)(\text{R}_1)\text{CH}_2\text{Cl}$ . 836P.
- 206-871-912.  
 Fluorene, 2-iodo-7-nitro-;  $\text{NO}_2(\text{C}_{12}\text{H}_9)\text{I}$ . 110, 197P.

- 206-871-951.  
Benzene, 1-iodo-2-nitro-;  $\text{IC}_6\text{H}_4\text{NO}_2$ . (*o*-Nitroiodobenzene).  
HT European corn borer and HT screwworms at 0.05-0.08%; T mosquito and codling moth larvae. 110, 156, 487, 1120, 1123, 1292, 1312, 1325P.
- 206-871-951.  
Benzene, 1-iodo-3-nitro-;  $\text{IC}_6\text{H}_4\text{NO}_2$ . (*m*-Nitroiodobenzene).  
HT screwworms; T mosquito and codling moth larvae. 110, 156, 487, 1206, 1292, 1325, 1328.
- 206-871-951.  
Benzene, 1-iodo-4-nitro-;  $\text{IC}_6\text{H}_4\text{NO}_2$ . (*p*-Nitroiodobenzene).  
T codling moth, silkworm, tent caterpillar, and European corn borer; NT screwworm and mosquito larvae. 110, 156, 487, 929, 930, 1120, 1123, 1292, 1312, 1325P, 1327, 1328.
- 206-871-951-1021.  
Toluene, 4-iodo-2-nitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)\text{I}$ .  
More toxic than lead arsenate to insects. 110, 1325P.
- 206-890-951.  
Benzene, 1-iodo-2-nitro-; dichloride;  $\text{C}_6\text{H}_3(\text{NO}_2)\text{ICl}_2$ . (*o*-Nitrophenyliodochloride).  
T Colorado potato beetles, southern armyworms, diamondback cabbage worms, and as mothproofing agent. 110, 239, 1312, 1314P.
- 206-890-951.  
Benzene, 1-iodo-3-nitro-; dichloride;  $\text{C}_6\text{H}_3(\text{NO}_2)\text{ICl}_2$ . (*m*-Nitrophenyliodochloride).  
HT Colorado potato beetles, southern armyworms, Hawaiian beet webworms, melon worms, and southern beet webworms; ST mosquitoes. 110, 157, 239, 1312, 1314P.
- 206-890-951.  
Benzene, 1-iodo-4-nitro-; dichloride;  $\text{C}_6\text{H}_3(\text{NO}_2)\text{ICl}_2$ . (*p*-Nitrophenyliodochloride).  
HT codling moths and tobacco hornworms; MT melon worms, mosquitoes, and many other insects. 110, 157, 239, 1312, 1314P.
- 206-912.  
Fluorene, 9-nitro-? ( $\text{C}_{13}\text{H}_9$ ) $\text{NO}_2$ ? (Nitrofluorene).  
NT codling moths. 915.
- 206-912.  
Acenaphthene, 3-nitro-;  $\text{C}_{10}\text{H}_7(\text{CH}_3)_2\text{NO}_2$ .  
MT *Culex quinquefasciatus*. 157.
- 206-924.  
Naphthalene, 1-nitro-;  $\text{C}_{10}\text{H}_7\text{NO}_2$ .  
HT *Aphis rumicis* and European corn borer; T Japanese beetles, codling moths, roaches, and T screwworms at 0.08%; NT *Agriotes*, *Tineola biselliella*, and *Attageus piceus*. 494, 586, 739, 915, 944, 950, 1120, 1176, 1376, 1382.
- 206-951.  
Benzene, nitro-;  $\text{C}_6\text{H}_5\text{NO}_2$ .  
HT *Aphis rumicis*; T screwworms; used in poison bran baits. 156, 751, 1376, 1396.
- 206-951-1003-1021.  
*p*-Cymene, 2-nitro-;  $\text{CH}_3(\text{C}_6\text{H}_7)\text{C}_6\text{H}_4\text{NO}_2$  (2-Nitro-4-isopropyl, 1-methyl benzene).  
NT screwworms. 156.
- 206-951-1021.  
Toluene, *o*-nitro-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NO}_2$ .  
T codling moth and *Musca domestica*; NT *Agriotes*. 915, 1002, 1382.
- 206-951-1021.  
Toluene, *p*-nitro-;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}_3$ .  
T screwworms at 0.10-0.17%. 156.
- 206-951-1021.  
Toluene, nitro-, CU;  $\text{NO}_2\text{C}_6\text{H}_4\text{CH}_3$ .  
T screwworms at 0.17-0.33%. 156.
- 206-951-1022.  
Xylene, nitro-, CU;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{NO}_2$ .  
T *Leptinotarsa decemlineata*; ST *Musca domestica*; NT *Agriotes*. 1002, 1009, 1382.
- 206-951-1023.  
Mesitylene, nitro-;  $(\text{CH}_3)_3\text{C}_6\text{H}_2\text{NO}_2$ .  
ST screwworms at 0.67%. 156.
- 206-952.  
Biphenyl, 2-nitro-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{NO}_2$ . (*o*-Nitrodiphenyl).  
T screwworms at 0.10-0.17%. 156.
- 206-952.  
Biphenyl, 4-nitro-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{NO}_2$ . (*p*-Nitrobiphenyl).  
HT codling moth larvae; NT screwworms and *Melanoplus mexicanus*. 156, 1150, 1291.
- 206-954-1021-1193-1291.  
Phosphonium chloride, *p*-nitrobenzyltriphenyl-;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_2(\text{C}_6\text{H}_5)_3\text{PCl}$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 206-1001.  
Butane, 1-nitro-;  $\text{CH}_3\text{NO}_2\text{CH}_2\text{CH}_2\text{CH}_3$ .  
T *Tribolium confusum*. 1158.
- 206-1001.  
Butane, 2 nitro-;  $\text{CH}_3\text{CHNO}_2\text{CH}_2\text{CH}_3$ .  
T *Tribolium confusum*. 1158.
- 206-1003.  
Propane, 1-nitro-;  $\text{CH}_3\text{NO}_2\text{CH}_2\text{CH}_3$ .  
T *Tribolium confusum*. 1158.
- 206-1003.  
Propane, 2-nitro-;  $\text{CH}_3\text{CHNO}_2\text{CH}_3$ .  
T *Tribolium confusum*. 1158.
- 206-1011.  
Ethane, nitro-;  $\text{CH}_3\text{NO}_2\text{CH}_3$ .  
T *Tribolium confusum*. 1158.
- 206-1021.  
Methane, nitro-;  $\text{CH}_3\text{NO}_2$ .  
HT rice weevil; T *Tribolium confusum*; ST codling moth; NT red scale and *Leptinotarsa decemlineata*. 288, 915, 1009, 1158, 1180.
- 207-230-952.  
Morpholine, 4-(2, 4-dinitrophenyl)-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{N}(\text{CH}_2\text{CH}_2)_2\text{O}$ .  
ST corn borer; NT *Cochliomyia americana*. 944, 1120.
- 207-248-571-581-691-951-1025.  
Picramic acid, *N,N*-dimethyl-, compound with betaine;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4(\text{NO}_2)_2\text{OH}(\text{CH}_3)_2\text{NCH}_2\text{COO}$ .  
NT *Phlyctaenia rubiginosa*. 949.
- 207-258-581-924.  
1-Naphthol-7-sulfonic acid, 2, 4-dinitro-;  $(\text{NO}_2)_2\text{C}_{10}\text{H}_6(\text{OH})\text{SO}_3\text{H}$ .  
T screwworms at 0.17-0.33%. 156.
- 207-258-581-951-1114.  
Phenolsulfonic acid, dinitro-, barium salt; CU;  $[\text{HOC}_6\text{H}_3(\text{NO}_2)_2\text{SO}_3]_2\text{Ba}$ . (Barium dinitrophenol sulfonic acid).  
NT *Pieris rapae*. 635.
- 207-258-581-1196.  
Phenolsulfonic acid, dinitro-, potassium salt, CU;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2\text{SO}_3\text{K}$ . (Potassium dinitrophenol sulfonic acid).  
NT *Pieris rapae*. 635.
- 207-258-588-924-1218.  
Naphthol yellow;  $\text{C}_{10}\text{H}_6(\text{NO}_2)_2(\text{SO}_3\text{Na})\text{ONa}$ . (Sodium or potassium salt of 2, 4-dinitro-1-naphthol-7-sulfonic acid).  
T as mothproofing agent. 200, 201, 1024, 1176.
- 207-258-951-1218.  
Benzene sulfonic acid, 2, 4-dinitro-, sodium salt;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{SO}_3\text{Na}$ . (Sodium 2, 4-dinitrobenzenesulfonate).  
NT screwworms. 156.
- 207-264-952.  
Sulfone, bis(*m*-nitrophenyl)-;  $\text{NO}_2\text{C}_6\text{H}_4\text{SO}_2\text{C}_6\text{H}_4\text{NO}_2$ . (Di-(3-nitrophenyl) sulfone).  
HT corn borer; T clothes moths. 239, 1120.
- 207-265-440-950.  
Phenothiazine, dinitro-, 5-oxide-, CU;  $(\text{NO}_2)_2(\text{C}_{12}\text{H}_7\text{NS})_2\text{O}$ . (Dinitro thiodiphenylamine sulfoxide).  
ST Mexican bean beetle. 606, 1432.
- 207-331-951-1021.  
Benzoyl chloride, 3, 5-dinitro-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{COCl}$ .  
NT screwworms. 156.
- 207-370-951-1023.  
Carbamic acid, dimethyldithio-, 2, 4-dinitrophenyl ester;  $(\text{CH}_3)_2\text{NC}(\text{S})\text{SC}_6\text{H}_3(\text{NO}_2)_2$ .  
MT Japanese beetle. 606, 1432.
- 207-401-951-1021.  
Thiocyanic acid, 2, 4-dinitrophenyl ester;  $\text{NCSC}_6\text{H}_3(\text{NO}_2)_2$ . (Thiocyano-2, 4-dinitrobenzene).  
Fly spray. 112, 674P, 1032P, 1178, 1202P.
- 207-460-950-951.  
Benzothiazole, 2-(3, 5-dinitrophenyl)-;  $(\text{C}_7\text{H}_4\text{NS})\text{C}_6\text{H}_3(\text{NO}_2)_2$ .  
NT mosquito larvae. 172, 1178.
- 207-541-571-588-620-842-950-951-1021-1218.  
Eosin bluish;  $\text{C}_{20}\text{H}_8\text{O}_5\text{Br}_2\text{Na}_2$ .  
T *Lucilia cuprina*. 849, 1144.



- 207-541-581-681-952-1021.  
 Anthranilic acid, 3, 5-dinitro-*N*-(2-hydroxyphenyl)-;  $(\text{NO}_2)_2(\text{COOH})\text{C}_6\text{H}_3\text{NHC}_6\text{H}_4\text{OH}$ . (2'-Hydroxy-2, 4-dinitrodiphenylamine-6-carboxylic acid).  
 HT *Carpocapsa pomonella*; NT mosquitoes. 487, 1291.
- 207-541-581-951-1011-1142.  
 Phenol, 2, 4-dinitro-, copper acetate compound;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OH}\cdot\text{Cu}(\text{OOCCH}_3)_2$ . 362P.
- 207-541-581-951-1011-1244.  
 Phenol, 2, 4-dinitro-, zinc acetate compound;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OH}\cdot\text{Zn}(\text{OOCCH}_3)_2$ . 362P.
- 207-541-581-951-1021.  
 Salicylic acid, 3, 5-dinitro-;  $(\text{NO}_2)_2(\text{HO})\text{C}_6\text{H}_3\text{COOH}$ . (3, 5-Dinitro-2-hydroxybenzoic acid).  
 T screwworms at 0.08-0.10%. 156.
- 207-541-581-951-1021-1218.  
 Salicylic acid, 3, 5-dinitro-, sodium salt;  $(\text{NO}_2)_2\text{C}_6\text{H}_3(\text{OH})\text{COONa}$ . (Sodium 3, 5-dinitrosalicylate).  
 T screwworms at 0.08-0.10%. 156.
- 207-541-671-681-953-1021.  
 Anthranilic acid, 3, 5-dinitro-*N*-phenyl-, aniline salt;  $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_3(\text{NO}_2)_2\text{COOH}\cdot\text{H}_2\text{NC}_6\text{H}_5$ . (Aniline salt of 2, 4-dinitrodiphenylamine-6-carboxylic acid).  
 T codling moth larvae; NT mosquito larvae. 487, 1291.
- 207-541-851-951.  
 Benzoic acid, 2-chloro-3, 5-dinitro-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3(\text{Cl})\text{COOH}$ .  
 MT codling moth larvae. 487, 1120.
- 207-541-951-1011.  
 $\alpha$ -Toluic acid, 2, 4-dinitro-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{CH}_3\text{COOH}$ . (2, 4-Dinitrophenylacetic acid).  
 NT screwworms. 156.
- 207-541-951-1021.  
 Benzoic acid, 3, 5-dinitro-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{COOH}$ .  
 ST screwworms at 0.67%; NT *Tineola biselliella* and *Attageus piceus*. 156, 739.
- 207-541-951-1021.  
 Benzoic acid, dinitro-, CU;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{COOH}$ .  
 NT *Tineola biselliella* and *Attageus piceus*. 739, 1176.
- 207-551-581-951-1011-1021.  
 Salicylic acid dinitro-, ethyl ester, CU;  $(\text{NO}_2)_2\text{C}_6\text{H}_3(\text{OH})\text{COO}^\sim\text{H}_5$ . (Ethyl dinitro salicylate). 996P.
- 207-551-581-951-961-1011.  
 Acetic acid,  $\alpha$ -chloro-, 2-cyclohexyl-4, 6-dinitrophenyl ester;  $(\text{NO}_2)_2(\text{C}_6\text{H}_{11})\text{C}_6\text{H}_4\text{OOCCH}_2\text{Cl}$ . (2, 4-Dinitro-6-cyclohexyl-phenylchloro-acetate).  
 T flies. 1308P.
- 207-551-951-961-1011.  
 Acetic acid, 2-cyclohexyl-4, 6-dinitrophenyl ester;  $(\text{NO}_2)_2(\text{C}_6\text{H}_{11})\text{C}_6\text{H}_4\text{OOCCH}_3$ . (2, 4-Dinitro-6-cyclohexyl-phenyl acetate).  
 T flies. 1308P.
- 207-551-951-1003.  
 Propionic acid, 2, 4-dinitrophenyl ester;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OOCCH}_2\text{H}_3$ . (2, 4-Dinitrophenol propionate).  
 NT European corn borer. 1122.
- 207-551-951-1003-1021.  
 Propionic acid, 4, 6-dinitro-*o*-tolyl ester;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OOCCH}_2\text{H}_3$ . (4, 6-Dinitro-*o*-cresol propionate).  
 T European corn borer. 1122.
- 207-551-951-1011.  
 Acetic acid, 2, 4-dinitrophenyl ester;  $\text{CH}_3\text{CO}_2\text{C}_6\text{H}_3(\text{NO}_2)_2$ .  
 T screwworms, European corn borer, *Culex quinquefasciatus*, and as mothproofing agent. 157, 239, 944, 1120.
- 207-551-951-1011-1021.  
 Acetic acid, 4, 6-dinitro-*o*-tolyl ester;  $\text{CH}_3\text{COOC}_6\text{H}_3(\text{CH}_3)(\text{NO}_2)_2$ . (4, 6-Dinitro-*o*-cresol acetate).  
 T termites, southern beet webworm, American cockroach, Mexican bean beetle, rice weevil, Hawaiian beet webworm, melon worm, European corn borer, and codling moth larvae. 1120, 1291, 1312, 1317.
- 207-551-951-1021.  
 Formic acid, 2, 4-dinitrophenyl ester;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{H}_2\text{OOCCH}$ . (Formate of 2, 4-dinitrophenol). 362P.
- 207-551-952-961-1021.  
 Benzoic acid, 2-cyclohexyl-4, 6-dinitrophenyl ester;  $\text{C}_6\text{H}_5\text{OOCCH}_2\text{C}_6\text{H}_3(\text{NO}_2)_2\text{C}_6\text{H}_{11}$ . (2, 4-Dinitro-6-cyclohexyl-phenyl benzoate).  
 T flies. 1308P.
- 207-571-581-951-961-1021-1030.  
 Cyclohexanone, 2-(3, 5-dinitrosalicylidene)-;  $\text{O}:(\text{C}_6\text{H}_4)_2\text{CHC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . 127P.
- 207-571-581-951-995-1030.  
 1-Penten-3-one, 4, 4-dimethyl-1-(3, 5-dinitro-2-hydroxyphenyl)-;  $\text{C}(\text{CH}_3)_2\text{COCH}:\text{CHC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . (3, 5-Dinitro-salicylidene- $\alpha$ -pinacolone). 127P.
- 207-571-581-952-999-1033.  
 3-Pentadienone, 1-(3, 5-dinitro-2-hydroxyphenyl)-5-phenyl-;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}:\text{CHC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . (3, 5-Dinitro-salicylidene benzylidene acetone). 127P.
- 207-571-581-952-1003-1030.  
 Acrylophenone,  $\beta$ -(3, 5-dinitro-2-hydroxyphenyl)-;  $\text{C}_6\text{H}_5\text{COCH}:\text{CHC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . (3, 5-Dinitro-salicylidene-acetophenone). 127P.
- 207-571-620-950.  
 Xanthone, 2, 7-dinitro-;  $\text{O}:(\text{C}_6\text{H}_4)_2\text{O}(\text{NO}_2)_2$ .  
 NT *Phlyctaenia rubigalis*. 949.
- 207-571-951-999-1033.  
 3-Pentadienone, 1, 5-bis(*m*-nitrophenyl)-;  $(\text{NO}_2\text{C}_6\text{H}_4)_2\text{CH}:\text{CH}:\text{CO}$ . (Di-*m*-nitrobenzalacetone; *m,m'*-dinitro-styryl ketone).  
 NT screwworms. 156.
- 207-581-665-672-952-1021.  
 Phenol, 2-(4, 6-diamino-*m*-tolylazo)-4, 6-dinitro-;  $(\text{NH}_2)_2\text{C}_6\text{H}_3(\text{CH}_3)\text{N}:\text{NC}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (4-(2-Hydroxy-3, 5-dinitrophenylazo)-6-*m*-tolylethylenediamine).  
 HT mosquito larvae. 487.
- 207-581-665-924-951.  
 2-Naphthol, 1-(2, 4-dinitrophenylazo)-;  $\text{HOC}_{10}\text{H}_6\text{N}:\text{NC}_6\text{H}_3(\text{NO}_2)_2$ .  
 NT corn borer. 1120.
- 207-581-667-951-975.  
 Phenol, dinitro-, arylbiguanide compound, CU. (Arylbiquandidine salt of dinitrophenol). 630P.
- 207-581-667-952-961.  
 Phenol, 2-cyclohexyl-4, 6-dinitro-, phenylbiguanide compound;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}\cdot\text{H}_2\text{NC}(\text{NH})\text{NHC}(\text{NH})\text{NHC}_6\text{H}_5$ . (Phenyl-biguanide salt of 2, 4-dinitro-6-cyclohexyl phenol). 630P.
- 207-581-668-951-975.  
 Phenol, dinitro-, diarylguanidine compound, CU; (Diaryl-guanidine salts of dinitrophenol). 630P.
- 207-581-671-951.  
 Picramic acid;  $\text{NH}_2(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OH}$ . (2-Amino-4, 6-dinitrophenol).  
 HT *Phlyctaenia rubigalis* larvae; ST greenhouse red spider; NT aphids and codling moth larvae. 634P, 915, 949, 1144, 1376, 1481.
- 207-581-671-951-962.  
 Phenol, 2-cyclohexyl-4, 6-dinitro-, cyclohexylamine compound;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}\cdot\text{H}_2\text{NC}_6\text{H}_{11}$ . (Monocyclohexyl-amine salt of 2, 4-dinitro-6-cyclohexyl phenol). 128P, 129P.
- 207-581-681-951-963.  
 Phenol, 2-cyclohexyl-4, 6-dinitro-, dicyclohexylamine compound;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}\cdot\text{HN}(\text{C}_6\text{H}_{11})_2$ . (Dicyclohexyl-amine salt of 2, 4-dinitro-6-cyclohexyl phenol).  
 T many insects. 13, 128P.
- 207-581-681-951-963-1022.  
 Phenol, 2-cyclohexyl-4, 6-dinitro-, di-(2-methyl-cyclohexylamine) compound;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}\cdot\text{HN}(\text{C}_6\text{H}_{10}\text{CH}_3)_2$ . (Di-(2-methyl-cyclohexyl)-amine salt of 2, 4-dinitro-6-cyclohexyl phenol). 128P.
- 207-581-681-951-1021.  
 Picramic acid, *N*-methyl-;  $(\text{NO}_2)_2\text{OHC}_6\text{H}_3\text{NHCH}_3$ .  
 HT greenhouse leaf tier. 634P, 949, 1144.
- 207-581-691-951-1022.  
 Picramic acid, *N,N*-dimethyl-;  $\text{C}_6\text{H}_5\text{OH}(\text{NO}_2)_2\text{N}(\text{CH}_3)_2$ .  
 HT greenhouse leaf tier. 949.
- 207-581-700-952-1003-1030.  
 Picramic acid, *N*-cinnamylidene;  $(\text{NO}_2)_2\text{OHC}_6\text{H}_3\text{N}:\text{CHCH}:\text{CHC}_6\text{H}_5$ . 126P.
- 207-581-851-951.  
 Phenol, 4-chloro-2, 6-dinitro-;  $\text{ClC}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ .  
 HT screwworms at 0.01-0.03%; T codling moths. 156, 915.
- 207-581-851-951.  
 Phenol, chloro-dinitro-, CU;  $\text{ClC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ .  
 HT *Aphis rumicis*. 1376.
- 207-581-912-951-1021-1030.  
 $o$ -Cresol, 4, 6-dinitro- $\alpha$ -(9-fluorenylidene)-;  $(\text{C}_{13}$ -



- $\text{H}_5$ :  $\text{CHC}_6\text{H}_5(\text{NO}_2)_2\text{OH}$ . (9-(3, 5-Dinitro-salicylidene)-fluorene). 127P.  
 207-581-924.  
 1-Naphthol, 2, 4-dinitro-;  $\text{C}_{10}\text{H}_7\text{OH}(\text{NO}_2)_2$ .  
 T coccroaches; MT *Phlyctesmia rubigalis*. 293P, 587, 940, 1144.  
 207-581-924.  
 1-Naphthol, dinitro-, CU;  $(\text{NO}_2)_2\text{C}_{10}\text{H}_7\text{OH}$ . (Dinitro- $\alpha$ -naphthol).  
 NT *Aphis rumicis*. 1376.  
 207-581-950-956-1021-1030.  
 o-Cresol,  $\alpha$ -(2, 4-cyclopentadienylidene)-4, 6-dinitro-;  $(\text{C}_5\text{H}_5)_2\text{CHC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . (3, 5-Dinitro-salicylidene-cyclopentadiene). 127P.  
 207-581-951.  
 Phenol, 2, 4-dinitro-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OH}$ .  
 HT *Aphis rumicis* and screwworms; T codling moth and Japanese beetles; NT grasshoppers. 156, 494, 915, 1144, 1376.  
 207-581-951-961.  
 Phenol, 2-cyclohexyl-4, 6-dinitro-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . (2, 4-Dinitro-6-cyclohexyl phenol).  
 HT screwworms and mosquitoes; T many insects. 13, 156, 293, 487, 488, 723, 726, 765, 766.  
 207-581-951-961.  
 Phenol, 3-cyclohexyl-4, 6-dinitro-?  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . (2, 4-Dinitro-metacyclohexyl phenol). 964P.  
 207-581-951-961.  
 Phenol, 3-cyclohexyl-dinitro-, CU;  $(\text{HO})(\text{NO}_2)_2\text{C}_6\text{H}_3\text{C}_6\text{H}_{11}$ . (Nitro derivatives of 3-cyclohexyl-phenol containing two substituting nitro groups in the benzene ring). 970P.  
 207-581-951-968.  
 Phenol, 2-cyclopentyl-4, 6-dinitro-;  $\text{HOC}_5\text{H}_9(\text{NO}_2)_2\text{C}_6\text{H}_5$ . (2, 4-Dinitro-6-cyclopentyl-phenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-993.  
 Phenol, 2, 4-dinitro-6-octyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-n-octylphenol).  
 ST *Bombyx mori*. 765, 999.  
 207-581-951-995.  
 Phenol, 2, 4-dinitro-6-heptyl-;  $\text{C}_7\text{H}_{15}\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-n-heptylphenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-997.  
 Phenol, 2, 4-dinitro-6-hexyl-;  $\text{C}_6\text{H}_{13}\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-n-hexylphenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-999.  
 Phenol, 2, 4-dinitro-6-pentyl-;  $\text{C}_5\text{H}_{11}\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-n-pentylphenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-1001.  
 Phenol, 2-butyl-4, 6-dinitro-;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-n-butylphenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-1001.  
 Phenol, 2-tert-butyl-4, 6-dinitro-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3(\text{OH})(\text{C}_3\text{H}_7)$ . (2, 4-Dinitro-6-tert-butyl phenol). 293P.  
 207-581-951-1003.  
 Phenol, 2, 4-dinitro-6-propyl-;  $\text{C}_3\text{H}_7\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-n-propylphenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-1003-1021.  
 Thymol, 2, 6-dinitro-;  $\text{HOC}_6\text{H}_4(\text{NO}_2)_2(\text{CH}_3)\text{CH}(\text{CH}_3)_2$ . (Dinitrothymol; 2, 4-dinitro-3-methyl-6-isopropylphenol).  
 HT screwworms; ST *Bombyx mori*. 156, 765.  
 207-581-951-1011.  
 Phenol, 2, 4-dinitro-6-ethyl-;  $\text{C}_2\text{H}_5\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-ethylphenol).  
 ST *Bombyx mori*. 765.  
 207-581-951-1021.  
 o-Cresol, 4, 6-dinitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{OH})(\text{NO}_2)_2$ . (2, 4-Dinitro-6-methylphenol; sometimes incorrectly named 3, 5-dinitro-o-cresol).  
 HT greenhouse red spider and codling moth at 4%; T corn borer and many insects; ST *Bombyx mori*. 156, 606, 765, 995P, 1120, 1144, 1150, 1291, 1373, 1376, 1377, 1481.  
 207-581-951-1021.  
 o-Cresol, dinitro-, CU;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ .  
 T as mothproofing agent. 1179, 1388P.  
 207-581-951-1021.  
 p-Cresol, 2, 5-dinitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . 293P.  
 207-581-951-1021.  
 p-Cresol, 2, 6-dinitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ .  
 HT greenhouse red spider and codling moth at 4%. 1481.  
 207-581-951-1027.  
 Phenols, alkyl-dinitro-. 969P.  
 207-581-951-1027.  
 Phenols, dialkyl-dinitro. 1000P.  
 207-581-951-1142-1389.  
 Phenol, 2, 4-dinitro-, copper sulfate compound;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OH}.\text{CuSO}_4$ . 362P.  
 207-581-951-1244-1291.  
 Phenol, 2, 4-dinitro-, zinc chloride compound;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2.\text{ZnCl}_2$ . 362P.  
 207-581-952.  
 Phenol, dinitro-o-phenyl-, CU;  $\text{C}_6\text{H}_3\text{C}_6\text{H}_4\text{OH}(\text{NO}_2)_2$ .  
 T aphids, psyllae, red spiders, and caterpillars. 121P.  
 207-581-952-1045.  
 Phenol, dinitro-o-phenyl-, compounds with organic nitrogen bases, CU.  
 T aphids, psyllae, red spiders, caterpillars, etc. 121P.  
 207-581-952-1450.  
 Phenol, dinitro-o-phenyl-, salts, CU.  
 T aphids, psyllae, red spiders, caterpillars, etc. 121P.  
 207-582-700-952-1021.  
 Picramic acid, N-salicylidene-;  $(\text{NO}_2)_2\text{OHC}_6\text{H}_4\text{N}:\text{CHC}_6\text{H}_4\text{OH}$ . 126P.  
 207-582-781-882-952.  
 Sulphide, bis(5-halogeno-2-hydroxy-3-nitrophenyl)-;  $[\text{NO}_2\text{C}_6\text{H}_3(\text{X})(\text{OH})]_2\text{S}$ . 383P, 1178.  
 207-582-951.  
 Resorcinol, dinitro-, CU;  $(\text{NO}_2)_2\text{C}_6\text{H}_3(\text{OH})_2$ .  
 NT codling moth. 915.  
 207-588-924-1218.  
 1-Naphthol, 2, 4-dinitro-, sodium derivative;  $\text{C}_{10}\text{H}_7(\text{NO}_2)_2\text{ONa}$ . (Naphthol yellow).  
 ST as mothproofing agent. 200A.  
 207-588-924-1218.  
 Naphthol, dinitro-, sodium derivative, CU;  $(\text{NO}_2)_2\text{C}_{10}\text{H}_7\text{ONa}$ .  
 T termites. 1179, 1388P.  
 207-588-951-961-1172.  
 Phenol, 2-cyclohexyl-4, 6-dinitro-, magnesium derivative;  $[\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{O}]_2\text{Mg}$ . (Magnesium 2, 4-dinitro-6-cyclohexylphenate).  
 NT *Melanoplus m. mexicanus*. 766, 1150.  
 207-588-951-1021-1109.  
 o-Cresol, dinitro-, ammonium derivative, CU;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{ONH}_4$ . (Ammonium dinitro-o-cresylate).  
 ST *Pieris rapae*. 635.  
 207-588-951-1021-1109.  
 p-Cresol, dinitro-, ammonium derivative, CU;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{ONH}_4$ . (Ammonium dinitro-p-cresylate).  
 ST *Pieris rapae*. 635.  
 207-588-951-1021-1196.  
 o-Cresol, dinitro-, potassium derivative, CU;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{OK}$ . (Potassium dinitro-o-cresylate).  
 T *Lucilia cuprina* larvae at 0.1%; ST *Pieris rapae*. 635, 849.  
 207-588-951-1021-1218.  
 o-Cresol, 3, 5-dinitro- sodium derivative;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2\text{ONa}$ .  
 HT screwworms at 0.03-0.05%. 156.  
 207-588-951-1021-1218.  
 o-Cresol, dinitro-, sodium derivative, CU. (Sodium dinitro-o-cresylate).  
 HT apple aphid larvae. 726.  
 207-588-951-1027-1246.  
 Phenol, dialkyl-dinitro-, derivative, CU. (Salts of dinitro dialkyl phenols).  
 Used for soft bodied insects and allied pests. 1000P.  
 207-588-951-1218.  
 Phenol, 2, 4-dinitro-, sodium derivative;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{ONa}$ .  
 HT screwworms at 0.08-0.10%. 156.  
 207-591-851-951-1003-1030.  
 Ether, 2-chloroallyl 2, 4-dinitrophenyl-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{OCH}_2\text{C}(\text{Cl})\text{CH}_3$ . (Propene, 2-chloro-3-(2, 4-dinitrophenoxy)-; 2-chloro-allyl ether of 2, 4-dinitrophenol).  
 Fly spray. 112, 209P.  
 207-591-951-961-1011.  
 Ether, 2-cyclohexyl-4, 6-dinitrophenyl ethyl-;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{OCH}_2\text{C}_6\text{H}_{11}$ .

- (C<sub>6</sub>H<sub>11</sub>)C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>5</sub>. (Ethyl ether of 2, 4-dinitro-6-cyclohexyl phenol).  
T files. 1309P.
- 207-591-951-961-1021.  
Ether, 2-cyclohexyl-4, 6-dinitrophenyl methyl-; (NO<sub>2</sub>)<sub>2</sub>(C<sub>6</sub>H<sub>11</sub>)C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>5</sub>. (Methyl ether of 2, 4-dinitro-6-cyclohexyl phenol).  
T files. 1309P.
- 207-591-951-1011.  
Phenetole, 2, 4-dinitro-; C<sub>6</sub>H<sub>5</sub>OC<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)<sub>2</sub>.  
ST screwworms at 0.67%. 156.
- 207-591-951-1021.  
Anisole, 2, 4-dinitro-; CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>(NO<sub>2</sub>)<sub>2</sub>. (2, 4-Dinitrophenyl methyl ether).  
T screwworms and cockroaches; MT corn borer and as mothproofing agent. 156, 157, 239, 586, 1120.
- 207-591-951-1022.  
Anisole, 2, 4-dinitro-6-methyl-; CH<sub>3</sub>OC<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>)(NO<sub>2</sub>)<sub>2</sub>. (2-Methyl-4, 6-dinitroanisole; 4, 6-dinitro-o-cresol methyl ether; 3, 5-dinitro-o-methoxy toluene).  
T *Carpocapsa pomonella*, mosquito larvae, Mexican bean beetle and tobacco hornworm; NT *Aphis rumicis*. 487, 1291, 1312, 1316, 1328, 1376.
- 207-591-952.  
Ether, bis(p-nitrophenyl)-; NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>. (p,p'-Dinitrodiphenyl ether).  
NT screwworms. 156.
- 207-591-952-961-1021.  
Ether, benzyl 2-cyclohexyl-4, 6-dinitrophenyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>11</sub>. (Benzyl ether of 2, 4-dinitro-6-cyclohexyl phenol).  
T files. 1309P.
- 207-591-952-993-1021.  
Ether, benzyl 2, 6-dinitro-4-tert-octylphenyl, CU; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>17</sub>. (Benzyl ether of 2, 6-dinitro-4-tertiary octyl phenol).  
Fly spray. 112, 684P.
- 207-591-952-993-1021.  
Ether, benzyl 2, 6-dinitro-4-(1, 1, 3, 3-tetramethylbutyl)phenyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>CH<sub>2</sub>-C(CH<sub>3</sub>)<sub>3</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 207-591-952-1021.  
Ether, p-nitrobenzyl o-nitrophenyl-; O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>-OC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 207-591-952-1021.  
Ether, benzyl 2, 4-dinitrophenyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>.  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 207-592-781-852-954-1022.  
Sulfide, bis[5-chloro-2-(p-nitrobenzoyloxy)-phenyl]-; S(C<sub>6</sub>H<sub>3</sub>(Cl)OCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>. (Sulfide, bis[5-chloro-2-(4-nitrophenylmethoxy)phenyl]-).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 207-592-781-954-994-1022.  
Sulfide, bis[2-(p-nitrobenzoyloxy)-5-(1, 1, 3, 3-tetramethylbutyl)-phenyl]-; S(C<sub>6</sub>H<sub>3</sub>(OCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)C(CH<sub>3</sub>)<sub>3</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>)<sub>2</sub>. (Sulfide, bis[2-(4-nitrophenylmethoxy)-5-(1, 1, 3, 3-tetramethylbutyl)phenyl]-).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 207-592-781-954-1022.  
Sulfide, bis[p-(p-nitrobenzoyloxy)-phenyl]-; S(C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>. (Sulfide, bis[4-(4-nitrophenylmethoxy)phenyl]-).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 207-592-954-1003-1022.  
Propane, 2, 2-bis(p-nitrobenzoyloxyphenyl)-, CU; (CH<sub>3</sub>)<sub>2</sub>C(C<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>. (Methane, bis(4-nitrophenylmethoxyphenyl)-dimethyl-).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 207-657-951.  
Hydrazine, 2, 4-dinitrophenyl-; H<sub>2</sub>NHNC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>.  
HT screwworms and codling moths. 156, 1291.
- 207-665-952.  
Asobenzene, 4, 4'-dinitro-; (:NC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>.  
ST codling moths at 4%. 1431.
- 207-671-951.  
Aniline, 2, 4-dinitro-; (NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub>. (2, 4-Dinitrophenylamine).  
T codling moths; ST greenhouse red spider at 4%; NT screwworms and NT bean aphid at 4%. 156, 915, 1481.
- 207-681-951-961.  
Cyclohexylamine, N-dinitrophenyl-, CU; C<sub>6</sub>H<sub>11</sub>NHC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>.  
ST *Mysus persicae*. 772.
- 207-681-952.  
Diphenylamine, 2, 4-dinitro-; (O<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHC<sub>6</sub>H<sub>5</sub>.  
NT screwworms. 156.
- 207-681-952.  
Diphenylamine, dinitro-, CU; HN(C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>.  
NT *Pieris rapae*. 635.
- 207-691-951-1012.  
Aniline, N,N-diethyl-2, 4-dinitro-; (NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>N(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>. (2, 4-Dinitrodiethylaniline).  
NT screwworms. 156.
- 207-732-852-950-951.  
Quinazoline, 6-chloro-3, 4-dihydro-8-nitro-3-(4-chloro-2-nitrophenyl)-; Cl(NO<sub>2</sub>)<sub>2</sub>(C<sub>6</sub>H<sub>3</sub>N<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>(Cl)NO<sub>2</sub>. (3-(2-Nitro-4-chlorobenzene)-6-chloro-8-nitro-3, 4-dihydroquinazoline).  
NT greenhouse red spider at 4%. 1481.
- 207-732-950-951.  
Quinazoline, 3, 4-dihydro-6-nitro-3-(p-nitrophenyl)-; NO<sub>2</sub>(C<sub>6</sub>H<sub>7</sub>N<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>NO<sub>2</sub>. (3-(4-Nitrobenzene)-6-nitro-3, 4-dihydroquinazoline).  
ST codling moth at 4%; NT greenhouse red spider at 4%. 1481.
- 207-732-950-951.  
Quinazoline, 3, 4-dihydro-8-nitro-3-(o-nitrophenyl)-; NO<sub>2</sub>(C<sub>6</sub>H<sub>7</sub>N<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>NO<sub>2</sub>. (3-(2-Nitrobenzene)-8-nitro-3, 4-dihydroquinazoline).  
NT greenhouse red spider at 4%. 1481.
- 207-781-952.  
Sulfide, bis(o-nitrophenyl)-; S(C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>. (2, 2'-Dinitro diphenyl sulfide).  
NT southern army worm and greenhouse red spider at 2% and NT codling moth at 4%. 1481.
- 207-781-952.  
Sulfide, bis(p-nitrophenyl)-; S(C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>)<sub>2</sub>. (4, 4'-Dinitro diphenyl sulfide).  
NT mosquito larvae and NT greenhouse red spider at 2% and NT codling moth at 4%. 487, 1481.
- 207-781-952-1021.  
Sulfide, benzyl 2, 4-dinitrophenyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>SC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>.  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 207-782-852-952.  
Disulfide, bis(4-chloro-2-nitrophenyl)-; [Cl(O<sub>2</sub>N)-C<sub>6</sub>H<sub>3</sub>S]<sub>2</sub>. (Di-2-nitro-4-chlorophenyl disulfide; 4, 4'-dichloro, 2, 2'-dinitrodiphenyl disulfide).  
NT mosquito larvae and screwworms. 156, 172, 1178.
- 207-782-952.  
Disulfide, bis(o-nitrophenyl)-; (NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>S)<sub>2</sub>. (Disulfide, di-(o-nitrophenyl)-).  
NT codling moth larvae and screwworms. 156, 915, 1432.
- 207-782-952.  
Disulfide, bis(p-nitrophenyl)-; (NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>S)<sub>2</sub>. (Di-p-nitrophenyl disulfide).  
NT screwworms and mosquito larvae. 156, 172, 1178.
- 207-841-951.  
Benzene, 1-bromo-2, 4-dinitro-; (NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Br. 2, 4-Dinitrobromobenzene).  
HT screwworms and *Culex quinquefasciatus*. 156, 157.
- 207-851-951.  
Benzene, 1-chloro-2, 4-dinitro-; (NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl. (4-Chloro-1, 3-dinitrobenzene).  
HT screwworms, mosquito larvae, and *Aphis rumicis*; T codling moths. 156, 157, 915, 1376.
- 207-851-951.  
Benzene, chlorodinitro-, CU; C<sub>6</sub>H<sub>4</sub>Cl(NO<sub>2</sub>)<sub>2</sub>.  
T leaf tiers and as mothproofing agent. 986, 1176, 1210P.
- 207-851-951-1108.  
Benzene, 1-chloro-2, 4-dinitro-, ammonium compound? ClC<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>.NH<sub>4</sub>OH? 839P.
- 207-852-951.  
Benzene, 1, 2-dichloro-4, 5-dinitro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>2</sub>.  
NT *Aphis rumicis*. 1376.

- 207-852-951.  
Benzene, 1, 4-dichloro-2, 6-dinitro-;  $\text{Cl}_2\text{C}_6\text{H}_2(\text{NO}_2)_4$ .  
NT *Aphis rumicis*. 1376.
- 207-852-952.  
Biphenyl, 4- 4'-dichloro-2, 2'-dinitro-;  $(\text{ClC}_6\text{H}_4)_2$ .  
NT screwworms. 156.
- 207-853-951.  
Benzene, dinitrotrichloro-, CU;  $(\text{NO}_2)_2\text{C}_6\text{H}(\text{Cl})_3$ .  
353P.
- 207-924.  
Naphthalene, 1, 5-dinitro-;  $\text{C}_{10}\text{H}_6(\text{NO}_2)_2$ .  
T screwworms at 0.33-0.67%. 156, 1376.
- 207-924.  
Naphthalene, 1, 8-dinitro-;  $\text{C}_{10}\text{H}_6(\text{NO}_2)_2$ .  
NT *Aphis rumicis*. 1376.
- 207-924.  
Naphthalene, dinitro-, CU;  $\text{C}_{10}\text{H}_6(\text{NO}_2)_2$ .  
MT codling moth larvae; NT *Bombyx mori*, *Tineola biselliella*, and *Attagenus piceus*. 156, 561, 739, 1101P, 1176, 1291.
- 207-951.  
Benzene, m-dinitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)_2$ .  
HT screwworms and *Aphis rumicis*; T Japanese beetles; MT aphids; NT *Melanoplus mexicanus*. 156, 494, 1150, 1376, 1377.
- 207-951.  
Benzene, o-dinitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)_2$ .  
T screwworms at 0.10-0.17%; ST greenhouse red spider at 4%; NT codling moth. 156, 915, 1481.
- 207-951.  
Benzene, p-dinitro-;  $\text{C}_6\text{H}_4(\text{NO}_2)_2$ .  
T mosquito larvae. 488.
- 207-951.  
Benzene, dinitro-, CU;  $\text{C}_6\text{H}_4(\text{NO}_2)_2$ . (Dinitrobenzol).  
T as mothproofing agent; NT *Agriotes*. 1176, 1210P, 1382.
- 207-951-1021.  
Toluene, 2, 4-dinitro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2$ . (1-Methyl-2, 4-dinitrobenzene).  
T codling moth and corn borer; ST screwworms; NT cockroaches. 156, 587, 915, 1120.
- 207-951-1021.  
Toluene, dinitro-, CU;  $(\text{NO}_2)_2\text{C}_6\text{H}_3\text{CH}_3$ . (Methyl-dinitrobenzene).  
ST Japanese beetle; NT *Bombyx mori*. 494, 561.
- 207-952.  
Biphenyl, 2, 2'-dinitro-;  $(\text{O}_2\text{NC}_6\text{H}_4)_2$ .  
HT codling moth larvae; NT screwworms. 156, 1291.
- 207-952-1021.  
Methane, bis(p-nitrophenyl)-;  $(\text{NO}_2\text{C}_6\text{H}_4)_2\text{CH}_2$ . (4-4'-Dinitrodiphenylmethane).  
ST screwworms at 0.67%. 156.
- 208-440-581-924-951.  
3-Naphthol[2, 3-e]-p-thiazine, picrate;  $(\text{C}_{11}\text{H}_7\text{NS})$ .-  
 $\text{HOC}_6\text{H}_3(\text{NO}_2)_2$ . 323.
- 208-440-582-924-951.  
3-Naphthol[2, 3-e]-p-thiazine, styphnate. ( $\beta$ -Naphthothiazine styphnate). 323.
- 208-460-581-841-952-1011.  
Thiasole, 4-(p-bromophenyl)-2-ethyl-, picrate;  $\text{C}_8\text{H}_5(\text{C}_6\text{H}_4\text{NS})\text{C}_2\text{H}_4\text{Br.HOC}_6\text{H}_3(\text{NO}_2)_2$ . 1478.
- 208-460-581-841-952-1021.  
Thiasole, 4-(p-bromophenyl)-2-methyl-, picrate;  $\text{CH}_3(\text{C}_6\text{H}_4\text{NS})\text{C}_2\text{H}_4\text{Br.HOC}_6\text{H}_3(\text{NO}_2)_2$ . 1478.
- 208-460-581-851-952-1011.  
Thiasole, 4-(p-chlorophenyl)-2-ethyl-, picrate;  $\text{C}_8\text{H}_5(\text{C}_6\text{H}_4\text{NS})\text{C}_2\text{H}_4\text{Cl.HOC}_6\text{H}_3(\text{NO}_2)_2$ . 1478.
- 208-460-581-851-952-1021.  
Thiasole, 4-(p-chlorophenyl)-2-methyl-, picrate;  $\text{CH}_3(\text{C}_6\text{H}_4\text{NS})\text{C}_2\text{H}_4\text{Cl.HOC}_6\text{H}_3(\text{NO}_2)_2$ . 1478.
- 208-460-581-871-952-1011.  
Thiasole, 2-ethyl-4-(p-iodophenyl)-, picrate;  $\text{C}_8\text{H}_5(\text{C}_6\text{H}_4\text{NS})\text{C}_2\text{H}_4\text{I.HOC}_6\text{H}_3(\text{NO}_2)_2$ . 1478.
- 208-460-581-871-951-1021.  
Thiasole, 4-(p-iodophenyl)-2-methyl-, picrate;  $\text{CH}_3(\text{C}_6\text{H}_4\text{NS})\text{C}_2\text{H}_4\text{I.HOC}_6\text{H}_3(\text{NO}_2)_2$ . 1478.
- 208-541-951-1021.  
Benzoic acid, 2, 4, 6-trinitro-;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{COOH}$ .  
T screwworms at 0.33-0.67%. 156.-
- 208-561-951-1021.  
Benzaldehyde, 2, 4, 6-trinitro-;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{CHO}$ .  
NT mosquito larvae. 487.
- 208-571-912.  
Fluorenone, 2, 6, 7-trinitro-;  $\text{O:C}_{13}\text{H}_6(\text{NO}_2)_3$ .  
NT *Cochliomyia americana*. 944.
- 208-581-951.  
Picric acid;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{OH}$ . (2, 4, 6-Trinitrophenol).  
T *Lucilia cuprina* larvae at 1%; MT *Aphis rumicis*;  
NT codling moth and *Tenebrio molitor*. 841, 849, 915, 1377.
- 208-581-951.  
Phenol, trinitro-, CU;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{OH}$ .  
HT *Aphis rumicis*. 1376.
- 208-581-951-961.  
Phenol, 3-cyclohexyl-2, 4, 6-trinitro-;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{C}_6\text{H}_{11}$ . (Nitro derivatives of 3-cyclohexyl-phenol containing three substituting nitro groups in the benzene ring). 970P.
- 208-581-951-961.  
Phenol, 3-cyclohexyltrinitro-, CU;  $(\text{HO})(\text{NO}_2)_2\text{C}_6\text{H}_2\text{C}_6\text{H}_{11}$ . (Nitro derivatives of 3-cyclohexyl-phenol containing three substituting nitro groups in the benzene ring). 970P.
- 208-581-951-1021.  
m-Cresol, 2, 4, 6-trinitro-;  $(\text{NO}_2)_3\text{C}_6\text{H}(\text{CH}_3)\text{OH}$ .  
T screwworms at 0.10-0.17%; ST codling moths. 156, 915.
- 208-582-951.  
Styphnic acid;  $(\text{NO}_2)_3\text{C}_6\text{H}(\text{OH})_2$ . (2, 4, 6-Trinitro-resorcinol).  
T screwworms at 0.17-0.33%; NT codling moths. 156, 930.
- 208-591-951-1021.  
Anisole, 2, 4, 6-trinitro-;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{OCH}_3$ . (Picric acid methyl ether; methyl picrate).  
T screwworms at 0.10-0.17%. 156.
- 208-591-952-1022.  
Ether, 4, 6-dinitro-o-tolyl p-nitrobenzyl-;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_3(\text{NO}_2)_2\text{CH}_3$ . (Ether, 6-methyl-2, 4-dinitrophenyl p-nitrobenzyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 208-657-951.  
Hydrazine, picryl-;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{NHNH}_2$ . (2, 4, 6-Trinitrophenylhydrazine).  
T screwworms at 0.17-0.33%. 156.
- 208-671-951.  
Picramide;  $\text{H}_2\text{NC}_6\text{H}_3(\text{NO}_2)_2$ . (2, 4, 6-Trinitroaniline).  
NT codling moths. 915.
- 208-851-951.  
Picryl chloride;  $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{Cl}$ . (2-Chloro-1, 3, 5-trinitrobenzene).  
T screwworms at 0.17-0.33%; NT codling moths and *Aphis rumicis*. 156, 915, 1376.
- 208-924.  
Naphthalene, trinitro-, CU;  $\text{C}_{10}\text{H}_6(\text{NO}_2)_3$ .  
NT silkworm and *Tineola biselliella*. 561, 1407.
- 208-951.  
Benzene, 1, 3, 5-trinitro-;  $\text{C}_6\text{H}_3(\text{NO}_2)_3$ .  
HT screwworms at 0.03-0.05%; NT codling moths. 156, 157, 915, 930.
- 208-951.  
Benzene, trinitro-, CU;  $\text{C}_6\text{H}_3(\text{NO}_2)_3$ .  
ST codling moth larvae. 555.
- 208-951-1001-1022.  
m-Xylene, 5-tert-butyl-2, 4, 6-trinitro-;  $(\text{CH}_3)_3\text{C}(\text{NO}_2)_3\text{C}_6\text{H}_3\text{C}(\text{CH}_3)_3$ . (2, 4, 6-Trinitro-1, 3-dimethyl-5-tert-butylbenzene).  
NT screwworms. 156.
- 208-951-1001-1022.  
Xylene, isobutyltrinitro-, CU;  $[(\text{CH}_3)_3\text{C}](\text{CH}_3)_2\text{C}(\text{NO}_2)_3\text{C}_6\text{H}_3$ . (Benzene, isobutyltrimethyltrinitro-; musk xylol).  
T as mothproofing agent. 32B, 638, 1175, 1179.
- 208-951-1021.  
Toluene, 8, 4, 6-trinitro-;  $\text{C}_6\text{H}_3(\text{CH}_3)(\text{NO}_2)_3$ .  
T *Cochliomyia americana* O and P at 10%. 944.
- 209-440-950-1350.  
Phenothiazine, tetranitro-, 5-oxide, CU;  $\text{O}:(\text{C}_{12}\text{H}_8\text{NS})_2(\text{NO}_2)_4$ . (Phenothiazine, tetranitro-, sulfide).  
ST Mexican bean beetle at 10%. 606, 1432.
- 209-571-582-952-999-1033.  
3-Pentadienone, 1, 5-bis-(3, 5-dinitro-2-hydroxyphenyl)-;  $[(\text{NO}_2)_2\text{C}_6\text{H}_3(\text{OH})\text{CH}:\text{CH}]_2\text{CO}$ . (Di-(3, 5-dinitro-salicylidene)-acetone). 127P.
- 209-581-681-952.  
Picramic acid, N-(2, 4-dinitrophenyl)-;  $\text{C}_6\text{H}_3\text{OH}(\text{NO}_2)_2\text{NHC}_6\text{H}_3(\text{NO}_2)_2$ . (2, 4-Dinitro, 4'-hydroxy-diphenylamine).  
ST screwworms; NT *Phlyctenia rubigalis*. 156, 949.

- 209-582-700-952-1021.  
Piramic acid, *N*-(3, 5-dinitrosalicylidene)-;  $(\text{NO}_2)_2\text{-OHC}_6\text{H}_3\text{N:CHC}_6\text{H}_3(\text{NO}_2)_2\text{OH}$ . 126P.
- 209-681-952.  
Diphenylamine, 2, 2', 4, 4', 6, 6'-hexanitro-;  $[(\text{NO}_2)_2\text{-C}_6\text{H}_4]_2\text{NH}$ . (Bis-(2, 4, 6-trinitrophenyl)amine).  
T *Cochliomyia americana* C and P at 0.03%. 944.
- 209-782-952.  
Disulfide, bis (2, 4-dinitrophenyl)-;  $[(\text{NO}_2)_2\text{-C}_6\text{H}_4]_2\text{S}$ . (2, 2', 4, 4'-Tetranitrodiphenyl disulfide).  
NT screwworms. 156.
- 209-952.  
Biphenyl, 2, 2', 4, 4'-tetranitro-;  $(\text{NO}_2)_2\text{-C}_6\text{H}_4\text{-}(\text{NO}_2)_2$ .  
NT screwworms. 156.
- 210-999.  
Isosmlyl nitrite;  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{ONO}$ .  
HT rice weevil; NT red scale. 268, 1180.
- 210-1001.  
Butyl nitrite;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{ONO}$ .  
HT rice weevil; NT red scale. 268, 1180.
- 211-989.  
Dodecyl nitrate;  $\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{NO}_3$ .  
Fly spray. 107P, 112.
230.  
Morpholine;  $\text{C}_4\text{H}_9\text{NO}$ . (Tetrahydro-1, 4-oxazine; di-ethylimide oxide).  
T *Lucilia sericata* and screwworm larvae. 723, 944.
- 230-401-951-1021.  
Morpholine, 4-(*p*-thiocyanophenyl)-;  $(\text{C}_6\text{H}_4\text{NO})\text{C}_6\text{H}_4\text{SCN}$ . 112, 674P, 1032, 1178, 1202.
- 230-571-951-1003.  
Propiophenone,  $\beta$ -4-morpholinyl-;  $\text{C}_6\text{H}_5\text{COCH}_2\text{CH}_2\text{-N}(\text{CH}_2\text{CH}_2)_2\text{O}$ . ( $\alpha$ -Benzoyl- $\beta$ -morpholino ethane). 719P.
- 230-796-950.  
3, 1, 4-Benzoxazin-2(1)one, thio-;  $\text{S}:(\text{C}_6\text{H}_7\text{NO})$ . (Cumason, 2-thio-).  
HT mosquito larvae. 172, 1178.
- 230-951.  
Morpholine, 4-phenyl-;  $\text{O}(\text{CH}_2\text{CH}_2)_2\text{NC}_6\text{H}_5$ .  
T houseflies. 1276.
- 231-572-952-1024-1213.  
Selenide, di-4-antipyril-;  $(\text{C}_{11}\text{H}_{11}\text{ON}_2)_2\text{Se}$ . (Anti-pyrine, seleno-).  
T as mothproofing agent. 399P, 429P, 475BP, 679P, 1175.
- 242-268-950-1011.  
Benzoxazole, 2-acetylthio-;  $(\text{C}_7\text{H}_4\text{NO})\text{SCOCH}_3$ . (1-Benzoxazole mercaptan acetate).  
MT mosquito larvae; NT codling moth larvae. 487, 1291.
- 242-681-950-951.  
Benzoxazole, 2-anilino-;  $\text{C}_6\text{H}_5\text{NH}(\text{C}_7\text{H}_4\text{ON})$ . (1-Anilino-benzoxazole).  
HT codling moth larvae. 1291.
- 242-791-950.  
Benzoxazole, 2-mercapto-;  $(\text{C}_7\text{H}_4\text{NO})\text{SH}$ . (1-Benzoxazole mercaptan).  
HT mosquito and codling moth larvae. 172, 487, 1178, 1291.
- 242-791-1027.  
Oxazoline, 5, 5-alkyl-2-mercapto-, CU;  $\text{R}_2(\text{C}_5\text{H}_8\text{NO})\text{SH}$ . 140P.
- 242-950-951.  
Benzoxazole, 2-phenyl-;  $(\text{C}_7\text{H}_4\text{NO})\text{C}_6\text{H}_5$ .  
HT mosquito larvae; T codling moth larvae. 487, 1291, 1328.
- 250-267-983-989-1023.  
9-Octadecenyloxanthic acid, carbonic acid, dodecylxanthic acid, anhydride;  $\text{C}_{15}\text{H}_{31}\text{OCSSCOSSCOOC}_{15}\text{H}_{31}$ . (Dodecylxanthic ester of 9, 10-octadecenyloxanthic formic acid). 1472P.
- 250-267-985-1023.  
Cetyl xanthic acid, anhydride with carbonic acid;  $(\text{C}_{18}\text{H}_{35}\text{OCSS})_2\text{CO}$ . (Cetyl xanthic ester of cetyl xanthic formic acid). 1472P.
- 250-267-987-993-1023.  
Tetradecyl xanthic acid, carbonic acid, octyl xanthic acid, anhydride;  $\text{C}_{12}\text{H}_{23}\text{OCSSCOSSCOOC}_{12}\text{H}_{23}$ . (Tetradecyl xanthic ester of octyl xanthic formic acid). 1472P.
- 250-267-989-1021.  
Dodecyl xanthic acid, anhydride with carbonic acid;  $(\text{C}_{12}\text{H}_{25}\text{OCSS})_2\text{CO}$ . (Dodecyl xanthic ester of dodecyl xanthic formic acid). 1472P.
- 250-541-989-1022.  
Formic acid, thionothiobis-, dodecyl ester;  $\text{C}_{12}\text{H}_{25}\text{-OCSSCOOH}$ . (Dodecyl xanthic formic acid). 1472P.
- 250-551-993-1023.  
Formic acid, thionothiobis-, methyl octyl ester;  $\text{C}_8\text{H}_{17}\text{OCSSCOOCH}_3$ . (Methyl ester of octyl xanthic formic acid). 1472P.
- 250-551-993-1023.  
Formic acid, thionothiobis-, octyl methyl ester;  $\text{CH}_3\text{-OCSSCOOC}_8\text{H}_{17}$ . (Octyl ester of methyl xanthic formic acid). 1472P.
- 250-551-1022-1027.  
Formic acid, thionothiobis-, alkyl esters. 1472P.
- 250-551-1027.  
Formic acids, thionothiobis-, dialkyl esters;  $\text{ROCSS-COOR}$ . [Mixed coconut alcoholic esters of mixed alkyl (as present in coconut aces.) xanthic formic acid]. 1472P.
- 250-989-1011-1021.  
Xanthic acid, dodecyl ester;  $\text{C}_{12}\text{H}_{25}\text{OCSSC}_{12}\text{H}_{25}$ . (Lauryl xanthate). 593P, 1432.
- 250-989-1021-1196.  
Dodecyl xanthic acid, potassium salt;  $\text{C}_{12}\text{H}_{25}\text{OCSSK}$ .  
Fly spray. 107P, 112.
- 250-999-1021-1218.  
Amyl xanthic acid, sodium salt;  $\text{C}_5\text{H}_{11}\text{OCSSNa}$ . (Xanthic acid, amyl sodium salt).  
Used with Paris green for killing *Anopheles*. 1027P, 1178.
- 250-1001-1021-1030.  
1-Methylallyloxanthic acid;  $\text{CH}_2\text{:CHCH}(\text{CH}_3)\text{OCSSH}$ . (Xanthate of methyl vinyl carbinol). 601P.
- 250-1001-1021-1030-1196.  
1-Methylallyloxanthic acid, potassium salt;  $\text{CH}_2\text{:CH}(\text{CH}_3)\text{OCSSK}$ . (Potassium xanthate of methyl vinyl carbinol). 601P.
- 250-1001-1021-1030-1196.  
2-Methylpropenyloxanthic acid, potassium salt;  $\text{CH}_3\text{-C}(\text{CH}_3)\text{:CHOCSSK}$ . (Potassium isobutyl xanthate). 600P.
- 250-1001-1021-1030-1246.  
2-Methylpropenyloxanthic acid, alkali metal salts. (Alkali-metal isobutenyl xanthate). 600P.
- 250-1004-1021.  
Propyl xanthic acid, propyl ester;  $\text{C}_3\text{H}_7\text{OCSSC}_3\text{H}_7$ . (Xanthic acid, propyl-, propyl ester). 1178, 1212P.
- 250-1011-1021-1196.  
Xanthic acid, potassium salt;  $\text{C}_2\text{H}_5\text{OCSSK}$ . (Potassium ethyl dithiocarbonate; potassium xanthogenate).  
T Japanese beetle larvae, *Heterodera schachtii*, and root-knot nematode; NT *Pieris rapae*. 494, 567, 635, 784, 1178, 1432.
- 250-1011-1021-1218.  
Xanthic acid, sodium salt;  $\text{C}_2\text{H}_5\text{OCSSNa}$ . (Sodium ethyl xanthate). 649, 1432.
- 250-1011-1022.  
Xanthic acid, methyl ester;  $\text{C}_2\text{H}_5\text{OCSSCH}_3$ .  
MT codling moth larvae when applied with talc. 915, 1432.
- 250-1013-1022.  
Glycol, dixanthate;  $[\text{C}_2\text{H}_5\text{OC}(:\text{S})\text{SCH}_2]_2$ . (Xanthic acid, ethylene ester; ethylene bis-ethyl xanthogen). 1178, 1212P.
- 250-1022-1196.  
Methyl xanthic acid, potassium salt;  $\text{CH}_3\text{OCSSK}$ . (Potassium methyl xanthate).  
HT codling moth larvae. 915, 1432.
- 250-1027.  
Alkyl xanthic acids, alkyl esters;  $\text{ROC}(:\text{S})\text{SR}$ . (Xanthates, bisalkyl). 1178, 1212P.
- 250-1027-1030-1246.  
Xanthic acids, substituted, salts;  $\text{XYC}_2\text{HOC}(:\text{S})\text{SM}$ . A monocyclic aliphatic xanthate containing at least five carbon atoms to the molecule, and possessing the general formula above, wherein X represents an isocanlyl radical, M a metal, and Y a substituent of the class consisting of hydrogen and alkyl radicals, X being linked to the C1 carbon atom by an unsaturated tertiary carbon atom. 600P.
- 250-1030-1045.  
Xanthic acids, unsaturated. 600P, 1432.
- 250-1045-1246.  
Xanthic acids, alkali metal salts. (Xanthates, alkali metal). 598, 749, 1208P, 1432.

- 258-290-672-700-955-1021-1030-1218.  
Methyl blue;  $C_6H_5N_3Na_2O_5S_2$ .  
T *Lucilia cuprina* larvae. 849.
- 258-315-582-842-950-952-1022.  
Bromocresol purple;  $C_{12}H_5BrO_5S$ . (Dibromo-*o*-cresol sulfonphthalein).  
NT clothes moth larvae. 974, 1176.
- 258-315-582-844-950-952.  
Bromophenol blue;  $C_{10}H_5Br_4O_5S$ . (Tetrabromophenol sulfonphthalein).  
NT clothes moth larvae. 974, 1176.
- 258-315-582-844-950-952.  
Bromocresol green;  $C_{10}H_5Br_4O_5S$ . (Tetrabromo-*m*-cresol sulfonphthalein).  
NT clothes moth larvae. 974, 1176.
- 258-315-582-950-952.  
Phenol red;  $C_{10}H_4O_5S$ . (Phenolsulfonphthalein).  
NT clothes moth larvae. 974, 1176.
- 258-401-591-681-953-1024.  
Benzenesulfonic acid, *p*-benzyloxy-, *N,N*-dimethylthiocyananiline salt, CU;  $C_6H_5CH_2OC_6H_4SO_2H-(CH_3)_2NC_6H_4SCN$ . (Benzenesulfonic acid, *p*-phenylmethoxy-, thiocyanato-*N,N*-dimethylaniline salt).  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.
- 258-402-990-1022-1218.  
Hendecane sulfonic acid, dithiocyanato-, sodium salt;  $(SCN)_2C_{11}H_{21}SO_2Na$ . (Dithiocyanato sodium undecyl-sulfonate).  
Fly spray. 106P, 112.
- 258-541-581-951-1021.  
Salicylic acid, sulfo-, CU;  $HO_2SC_6H_4(OH)COOH$ .  
NT clothes moths. 985, 1176.
- 258-541-581-983-1030.  
Ricinoleic acid, sulpho-, CU;  $HO_2SC_{17}H_{33}(OH)COOH$ ?  
T as mothproofing agent. 980P, 1176.
- 258-541-581-983-1030-1246.  
Ricinoleic acid, sulpho-, salts, CU;  $HO_2SC_{17}H_{33}(OH)COOM$ .  
T as mothproofing agent. 103P, 1179.
- 258-541-671-952-1022.  
Anthranilic acid, *p*-toluene sulfonic acid compound;  $HO_2OC_6H_4NH_2HSO_3C_6H_4CH_3$ .  
NT mosquito larvae. 172, 1178.
- 258-541-983-1030.  
Oleic acid, sulphonated;  $HO_2SC_{17}H_{33}COOH$ ?  
T as mothproofing agent. 980P, 1176.
- 258-541-1027.  
Fatty acids, sulfonated;  $(HSO_3)RCOOH$ .  
T as mothproofing agent. 460P, 470P, 1175, 1176, 1356P.
- 258-542-975.  
Dicarboxylic acids, aromatic, sulpho-.  
T as mothproofing agent. 1179, 1335P.
- 258-551-681-951-980-1003.  
1-Propanesulfonic acid, 3-anilino-2-hydroxy-, montanic acid ester;  $C_6H_5CH_2COOCH(CH_2SO_3H)CH_2NH_2$ . (1-Propanesulfonic acid, 2-hydroxy-3-phenylimido montanic acid ester). 358P, 1178.
- 258-551-681-983-1011-1246.  
Isethionic acid, fluorostearic acid ester, salts;  $FC_{17}H_{33}COOCH_2CH_2SO_3M$ . (Salts of monofluorostearic acid esters of hydroxyethanesulfonic acid). 345P.
- 258-551-980-1003-1218.  
1-Propanesulfonic acid, 3-hydroxy-, montanic acid ester, sodium salt;  $NaSO_3CH_2CH_2COOCC_6H_5$ ? (Montanic acid ester of Na 1-hydroxy propane-3-sulfonate). 358P.
- 258-551-984-1011-1030-1218.  
Isethionic acid, oleic acid ester, sodium salt;  $C_{18}H_{33}CH_2CH(CH_2)_7COOCH_2CH_2SO_3Na$ . (Oleic acid, sodium isethionate ester). 179, 1432.
- 258-551-1045.  
Carboxylic acids, sulpho-, esters.  
T as mothproofing agent. 550P, 1179, 1336P.
- 258-552-852-953-1022-1246.  
Phthalic acid, sulfo-, di-*p*-chlorophenyl ester, salt, CU;  $MO_2SC_6H_4(COOC_6H_4Cl)_2$ .  
T as mothproofing agent. 550P, 1179.
- 258-552-924-1000-1022.  
Naphthalic acid, 2-sulfo-, diamyl ester;  $HO_2SC_6H_4H_5(COOC_6H_{11})_2$ ?  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-951-962-1024.  
Phthalic acid, sulfo-, bis(methylcyclohexyl) ester, CU;  $HO_2SC_6H_4(COOC_6H_{10}CH_3)_2$ . (Phthalic acid, sulpho-, methylhexaline ester).  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-951-983-985-1022.  
Phthalic acid, sulfo-, mixed octyl and octadecyl ester, CU;  $HO_2SC_6H_4(COOC_8H_{17})(COOC_{18}H_{37})_2$ . (Phthalic acid, sulpho-, mixed stearyl and octyl esters).  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-951-983-1022-1246.  
Phthalic acid, sulfo-, dioctadecyl ester, salt, CU;  $MO_2SC_6H_4(COOC_{18}H_{37})_2$ . (Phthalic acid, sulpho-, stearyl ester-salt).  
T as mothproofing agent. 550P, 1179, 1335P, 1336P.
- 258-552-951-985-1022-1246.  
Phthalic acid, sulfo-, dioctyl ester, salt, CU;  $MO_2SC_6H_4(COOC_8H_{17})_2$ . (Phthalic acid, sulpho-, palmityl ester-salt).  
T as mothproofing agent. 550P, 1179, 1335P, 1336P.
- 258-552-951-994-1022.  
Phthalic acid, sulfo-, di-*sec*-octyl ester, CU;  $HO_2SC_6H_4(COOC_8H_{17})_2$ .  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-951-1000-1022.  
Phthalic acid, sulfo-, diamyl ester, CU;  $HO_2SC_6H_4(COOC_6H_{11})_2$ ?  
T as mothproofing agent. 550P, 1179, 1335P, 1336P.
- 258-552-951-1000-1022.  
Terephthalic acid, sulfo-, diamyl ester;  $HO_2SC_6H_4(COOC_6H_{11})_2$ ?  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-951-1002-1022.  
Phthalic acid, sulfo-, dibutyl ester, CU;  $HO_2SC_6H_4(COOC_4H_9)_2$ .  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-951-1022-1045.  
Phthalic acid, sulfo-, diester, CU;  $HO_2SC_6H_4(COOR)_2$ .  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-552-953-1024-1246.  
Phthalic acid, sulfo-, di-*p*-tolyl ester, salt, CU;  $MO_2SC_6H_4(COOC_6H_4CH_3)_2$ . (Phthalic acid, sulpho-, *p*-cresyl ester, salt).  
T as mothproofing agent. 1179, 1335P, 1336P.
- 258-561-851-951-1021.  
Benzenesulfonic acid, 4-chloro-2-formyl-;  $HO_2SC_6H_4(Cl)CHO$ . (Benzaldehyde, 2-sulphonic acid, 5-chloro-; 5-chloro-2-sulphobenzaldehyde).  
T as mothproofing agent. 417P, 1175.
- 258-561-851-951-1021.  
Benzenesulfonic acid, 4-chloro-3-formyl-;  $HO_2SC_6H_4(Cl)CHO$ . (Benzaldehyde, 2-chloro-5-sulphonic acid; 2-chloro-5-sulphobenzaldehyde).  
T as mothproofing agent. 402P, 469P, 1175, 1176.
- 258-561-851-951-1021.  
Benzenesulfonic acid, 5-chloro-2-formyl-;  $HO_2SC_6H_4(Cl)CHO$ . (Benzaldehyde, 4-chloro-2-sulphonic acid; 4-chloro-2-sulphobenzaldehyde).  
T as mothproofing agent. 417P, 1175.
- 258-561-851-951-1021.  
Benzenesulfonic acid, *m*-formyl-;  $HO_2SC_6H_4CHO$ . (Benzaldehyde, 3-sulphonic acid, *m*-sulphobenzaldehyde).  
T as mothproofing agent. 402P, 469P, 1175, 1176.
- 258-561-951-1021.  
Benzenesulfonic acid, *o*-formyl-;  $HO_2SC_6H_4CHO$ . (Benzaldehyde, 2-sulphonic acid; *o*-sulphobenzaldehyde, 2-sulphobenzaldehyde orthosulphonic acid).  
T as mothproofing agent. 94P, 398P, 402P, 469P, 1175, 1176, 1465P.
- 258-561-951-1021.  
Benzenesulfonic acid, *p*-formyl-;  $HO_2SC_6H_4CHO$ . (Benzaldehyde, 4-sulphonic acid; *p*-sulphobenzaldehyde).  
T as mothproofing agent. 436P, 1175.
- 258-561-1045.  
Aldehydes, sulfo-, CU. (Aldehyde sulphonate acids).  
T as mothproofing agent. 410P, 1175.
- 258-571-582-681-904-999-1011-1022-1218.  
Taurocholic acid, sodium salt;  $C_{26}H_{45}O_7NS$ .  
T as mothproofing agent. 585P, 945P, 1176, 1179.
- 258-572-740-950-1030-1218.  
Indigo carmine;  $[NaSO_3C_6H_4(NH)(CO)_2C]_2$ . (5, 5'-Indigotindisulfonic acid, disodium salt; soluble indigo).  
NT mosquito larvae. 487.

- 258-581-665-730-950-951.  
Benzenesulfonic acid, *p*-(8-hydroxy-5-quinolyloxy)-;  $\text{HO}_2\text{SC}_6\text{H}_4\text{N}(\text{N}(\text{C}_6\text{H}_5)\text{OH})$ . (Benzene-1-sulphonic acid-(4-*iso*-5)-8-hydroxy quinoline).  
ST greenhouse red spider at 2% and NT at 1%. 1481.
- 258-581-665-924-951-1218.  
Orange G;  $\text{C}_6\text{H}_5\text{N}(\text{NC}_6\text{H}_4(\text{OH})(\text{SO}_2\text{Na}))_2$ .  
T *Lucilia cuprina* larvae. 849.
- 258-581-665-952-1218.  
Benzenesulfonic acid, *p*-(*p*-hydroxyphenyloxy)-, sodium salt;  $\text{HOC}_6\text{H}_4\text{N}(\text{NC}_6\text{H}_4\text{SO}_2\text{Na})_2$ . (Sodium *p*-hydroxy-*asobenzene-p'*-sulfonate).  
ST screwworms at 0.67% and ST greenhouse red spider at 2%. 156, 1481.
- 258-581-671-924.  
1-Naphthol-3, 6-disulfonic acid, 8-amino-;  $\text{H}_2\text{N}(\text{OH})\text{C}_6\text{H}_3(\text{SO}_3\text{H})_2$ . (H acid).  
HT *Aphis rumicis*. 1152, 1178.
- 258-581-671-951.  
1-Phenol-4-sulfonic acid, 3-amino-;  $\text{NH}_2(\text{OH})\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (1-Amino-3-hydroxybenzene-6-sulfonic acid). 363P.
- 258-581-671-951.  
Phenolsulphonic acids, amino-;  $\text{HO}(\text{NH}_2)\text{C}_6\text{H}_4\text{SO}_3\text{H}$ .  
T as mothproofing agent. 331P, 1176.
- 258-581-671-952-1021.  
*p*-Toluenesulfonic acid, *o*-aminophenol salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{H}(\text{NH}_2\text{C}_6\text{H}_4\text{OH})$ . (*o*-Aminophenol *p*-toluene sulfonate; aniline, *o*-hydroxy-, *p*-toluene sulfonate).  
NT mosquito larvae. 172, 1178.
- 258-581-730-871-950-1110.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, anti-mony salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Sb}$ . 110, 1348P.
- 258-581-730-871-950-1142.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, copper salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Cu}$ . 110, 1348P.
- 258-581-730-871-950-1162.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, iron salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Fe}$ . 110, 1348P.
- 258-581-730-871-950-1166.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, lead salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Pb}$ . 110, 1348P.
- 258-581-730-871-950-1176.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, mercury salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Hg}$ . 110, 1348P.
- 258-581-730-871-950-1182.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, nickel salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Ni}$ . 110, 1348P.
- 258-581-730-871-950-1216.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, silver salt;  $\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3\text{Ag}$ . 110, 1348P.
- 258-581-730-871-950-1234.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, tin salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Sn}$ . 110, 1348P.
- 258-581-730-871-950-1244.  
5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, zinc salt;  $[\text{C}_6\text{H}_4\text{N}(\text{OH})(\text{I})\text{SO}_3]_2\text{Zn}$ . 110, 1348P.
- 258-581-851-951.  
1-Phenol-2-sulfonic acid, 4-chloro-;  $\text{HOC}_6\text{H}_3(\text{Cl})\text{SO}_3\text{H}$ . (*o*-Phenolsulphonic acid, 4-chloro-; 2-sulpho-4-chloro-phenol).  
T as mothproofing agent. 413P, 1175.
- 258-581-851-952-1021.  
*p*-Toluenesulfonic acid,  $\alpha$ -(5-chloro-2-hydroxyphenyl)-;  $\text{CH}_3(\text{ClC}_6\text{H}_3\text{OH})\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 5-chloro-2-hydroxy-4'-sulphodiphenyl-).  
T as mothproofing agent. 1179, 1456P.
- 258-581-852-952-1022.  
*p*-Toluenesulfonic acid,  $\alpha$ -(4, 6-dichloro-*o*-tolyl)- $\alpha$ -hydroxy-;  $\text{HO}_2\text{SC}_6\text{H}_3\text{CH}(\text{OH})\text{C}_6\text{H}_3(\text{CH}_3)_2\text{Cl}_2$ . (Carbinol, dichloromethylsulphodiphenyl-).  
T as mothproofing agent. 1179, 1454P.
- 258-581-855-952-1021.  
Toluenesulfonic acid, chlorohydroxy- $\alpha$ -tetrachlorophenyl-, CU;  $\text{HO}_2\text{S}(\text{Cl})(\text{OH})\text{C}_6\text{H}_2\text{CH}_2\text{C}_6\text{HCl}_4$ . (Methane, pentachlorohydroxyulphodiphenyl-).  
T as mothproofing agent. 1179, 1394P.
- 258-581-924.  
1-Naphthol-3, 6-disulfonic acid;  $\text{HOC}_{10}\text{H}_6(\text{SO}_3\text{H})_2$ .  
T *Aphis rumicis*. 1152, 1178.
- 258-581-924.  
1-Naphthol, 3, 6, 8-trisulfonic acid;  $(\text{HSO}_3)_3\text{C}_{10}\text{H}_4\text{OH}$ .  
T *Aphis rumicis*. 1152.
- 258-581-924-954-1021-1193.  
Phosphonium 1-naphthol-5, 7-disulphonate, benzyl-triphenyl-;  $[(\text{C}_6\text{H}_5\text{CH}_2)_3(\text{C}_6\text{H}_4)_2\text{P}](\text{SO}_3)_2\text{C}_{10}\text{H}_6\text{OH}$ .  
T as mothproofing agent. 871P, 1179.
- 258-581-924-1218.  
1-Naphthol-4-sulfonic acid, sodium salt;  $\text{HOC}_{10}\text{H}_6\text{SO}_3\text{Na}$ .  
T Japanese beetle larvae. 494, 1178.
- 258-581-924-1218.  
2-Naphthol-6-sulfonic acid, sodium salt;  $\text{HOC}_{10}\text{H}_6\text{SO}_3\text{Na}$ .  
HT *Aphis rumicis*. 1152, 1178.
- 258-581-924-1218.  
2-Naphthol-6, 8-disulfonic acid, disodium salt;  $\text{HOC}_{10}\text{H}_6(\text{SO}_3\text{Na})_2$ .  
HT *Aphis rumicis*. 1152, 1178.
- 258-581-951.  
1-Phenol-4-sulfonic acid;  $\text{HOC}_6\text{H}_4\text{SO}_3\text{H}$ . (Phenol para-sulphonic acid).  
T as mothproofing agent. 329P, 1176.
- 258-581-951.  
Phenolsulphonic acids, CU;  $\text{HOC}_6\text{H}_4\text{SO}_3\text{H}$ .  
T *Lucilia cuprina* larvae and as mothproofing agent. 331P, 413P, 849, 1175, 1176.
- 258-581-951-1021-1114.  
Toluenesulfonic acid, hydroxy-, barium salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Ba}$ . (Barium *o*-cresolmonosulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1166.  
Toluenesulfonic acid, hydroxy-, lead salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Pb}$ . (Lead *o*-cresolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1166.  
Toluenesulfonic acid, hydroxy-, lead salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Pb}$ . (Lead *p*-cresolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1176.  
Toluenesulfonic acid, hydroxy-, mercury salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Hg}$ . (Mercury *m*-cresolsulfonic acid).  
ST *Pieris rapae*. 635.
- 258-581-951-1021-1176.  
Toluenesulfonic acid, hydroxy-, mercury salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Hg}$ . (Mercury *o*-cresolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1176.  
Toluenesulfonic acid, hydroxy-, mercury salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Hg}$ . (Mercury *p*-cresolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1218.  
Toluenesulfonic acid, hydroxy-, sodium salt, CU;  $\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3\text{Na}$ . (Sodium *o*-cresolmonosulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1244.  
Toluenesulfonic acid, hydroxy-, zinc salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Zn}$ . (Zinc *m*-cresolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1021-1244.  
Toluenesulfonic acid, hydroxy-, zinc salt, CU;  $[\text{HOC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Zn}$ . (Zinc *p*-cresolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1166.  
Phenolsulfonic acid, lead salt, CU;  $(\text{HOC}_6\text{H}_4\text{SO}_3)_2\text{Pb}$ . (Lead phenolsulfonic acid).  
NT *Pieris rapae*. 635.
- 258-581-951-1218.  
Phenolsulphonic acid, sodium salt, CU;  $\text{C}_6\text{H}_4\text{OHSO}_3\text{Na}$ .  
HT *Aphis rumicis*; NT *Melanoplus m. mexicanus*. 1150, 1152.
- 258-581-951-1244.  
Phenolsulfonic acid, zinc salt, CU;  $(\text{HOC}_6\text{H}_4\text{SO}_3)_2\text{Zn}$ .  
NT *Pieris rapae*. 635.
- 258-581-951-1312.  
1-Phenol-4-sulfonic acid, compound with hydrofluoric

- acid;  $\text{HO}\cdot\text{C}_6\text{H}_4\text{SO}_3\text{H}\cdot\text{HF}$ ? (*p*-Phenolsulfonic acid hydrofluoride).
- T as mothproofing agent. 642P, 1175.
- 258-581-953-1001-1218.
- Biphenylsulfonic acid, butylhydroxy-, sodium salt, CU;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ ? (Sulfonic acid, butylphenylphenol-, sodium salt; "Areskap"). 54, 562, 1168, 1415, 1432.
- 258-581-952-1027.
- Biphenylsulfonic acid, alkylhydroxy-, CU;  $\text{HO}(\text{R})\cdot\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Free acids of alkyl hydroxy-diphenyl sulfonates). 499P.
- 258-581-952-1027-1045-1109.
- Biphenylsulfonic acid, alkylhydroxy-, organic ammonium salts, CU;  $\text{HO}(\text{R})\cdot\text{C}_6\text{H}_4\text{SO}_3\text{NRm}$ . (Organic ammonium salts of alkyl hydroxy-diphenyl sulfonates). 499P.
- 258-581-952-1027-1109.
- Biphenylsulfonic acid, alkylhydroxy-, ammonium salts, CU;  $\text{RC}_6\text{H}_4(\text{OH})\cdot\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Ammonium salts of alkyl hydroxy-diphenyl sulfonates). 499P.
- 258-581-952-1027-1246.
- Biphenylsulfonic acid, alkylhydroxy-, metal salts, CU;  $\text{RC}_6\text{H}_4(\text{OH})\cdot\text{C}_6\text{H}_4\text{SO}_3\text{M}$ . (Metal salts of alkyl hydroxy-diphenyl sulfonates). 499P.
- 258-581-975-1021.
- Methanol, di- or triaryl-, sulfonated.
- T as mothproofing agent. 444P, 452P, 469P, 1179.
- 258-582-665-952.
- Benzenesulfonic acid, *p*-(2, 4-dihydroxyphenylazo)-;  $(\text{HO})_2\text{C}_6\text{H}_3\text{N}:\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (2, 4-Dihydroxy azobenzenesulfonic acid-(4')).
- ST greenhouse red spider at 2% and 1%; NT screwworms. 156, 1481.
- 258-582-842-953-1021.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-bromo-2-hydroxyphenyl)-;  $\text{CH}(\text{C}_6\text{H}_4(\text{Br})\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-5, 5'-dibromo-2''-sulphotriphenyl; 2, 2'-dioxo-5, 5'-dibrom-2''-sulfotriphenylmethane).
- T as mothproofing agent. 434P, 1175, 1465P.
- 258-582-843-952-1021.
- p*-Toluenesulfonic acid,  $\alpha$ -hydroxy- $\alpha$ -(3-hydroxy-2, 4, 6-tribromophenyl)-;  $\text{HO}\cdot\text{SC}_6\text{H}_4\text{CH}(\text{OH})\text{C}_6\text{H}_3(\text{Br})_3\text{OH}$ . (Carbinol, 2, 4, 6-tribromo-3-hydroxy-4'-sulphodiphenyl-).
- T as mothproofing agent. 439P, 1179.
- 258-582-852-952-1021.
- Methanedisulfonic acid, bis(chlorohydroxyphenyl)-, CU;  $\text{Cl}(\text{C}_6\text{H}_4(\text{Cl})\text{OH})_2(\text{SO}_3\text{H})_2$ . (Methane, dichlorodihydroxy-diphenyl, disulphonic acid).
- T as mothproofing agent. 415P, 1176.
- 258-582-852-953-1021.
- m*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-hydroxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, bis(5-chloro-2-hydroxyphenyl)-3'-sulphophenyl).
- T as mothproofing agent. 458, 1179.
- 258-582-852-953-1021.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-hydroxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-5, 5'-dichloro-2''-sulphotriphenyl; 2, 2'-dioxo-5, 5'-dichlor-2''-sulfotriphenylmethane).
- T as mothproofing agent. 434P, 458P, 1175, 1179, 1465P, 1467P.
- 258-582-852-953-1021.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(6-chloro-2-hydroxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, bis(6-chloro-2-hydroxyphenyl)-2'-sulphophenyl).
- T as mothproofing agent. 438P, 1179.
- 258-582-852-953-1023.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(chlorohydroxytolyl)-, CU;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{Cl})(\text{CH}_3)\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, dimethyl-dihydroxy-dichloro-2''-sulphotriphenyl; dimethyldioxydichlor-2''-sulfotriphenylmethane).
- T as mothproofing agent. 1175, 1465P.
- 258-582-852-953-1023.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-hydroxy-*m*-tolyl)-;  $\text{CH}(\text{C}_6\text{H}_4(\text{Cl})(\text{OH}_2)\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 3, 3'-dimethyl-2, 2'-dihydroxy-5, 5'-dichloro-2''-sulphotriphenyl; 3, 3'-dimethyl-2, 2'-dioxo-5, 5'-dichlor-2''-sulfotriphenylmethane).
- T as mothproofing agent. 434P, 1175, 1465P.
- 258-582-852-953-1023.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-6-hydroxy-*m*-tolyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Me-
- thane, bis(3-chloro-2-hydroxy-5-methylphenyl)-3'-sulphophenyl-).
- T as mothproofing agent. 438P, 442P, 1175, 1179, 1467P, 1469P.
- 258-582-853-952-1021.
- Toluenesulfonic acids,  $\alpha$ -dihydroxytrichlorophenyl-, CU. (Methane, trichlorodihydroxydiphenyl-, sulphonated).
- T as mothproofing agent. 452P, 1179.
- 258-582-853-952-1021.
- o*-Toluenesulfonic acid,  $\alpha$ -hydroxy- $\alpha$ -(3-hydroxy-2, 4, 6-trichlorophenyl)-;  $\text{HO}\cdot\text{SC}_6\text{H}_4\text{CH}(\text{OH})\text{C}_6\text{H}_3(\text{Cl})_3\text{OH}$ . Carbinol, 2, 4, 6-trichloro-3-hydroxy-2'-sulphodiphenyl-).
- T as mothproofing agent. 439P, 1179, 1454P.
- 258-582-853-952-1021.
- p*-Toluenesulfonic acid,  $\alpha$ -hydroxy- $\alpha$ -(3-hydroxy-2, 4, 6-trichlorophenyl)-;  $\text{HO}\cdot\text{SC}_6\text{H}_4\text{CH}(\text{OH})\text{C}_6\text{H}_3(\text{Cl})_3\text{OH}$ . (Carbinol, 2, 4, 6-trichloro-3-hydroxy-4'-sulphodiphenyl-).
- T as mothproofing agent. 439P, 1179, 1454P.
- 258-582-853-952-1022.
- p*-Toluenesulfonic acid,  $\alpha$ -hydroxy- $\alpha$ -(5-hydroxy-2, 4, 6-trichloro-*m*-tolyl)-;  $\text{HO}\cdot\text{SC}_6\text{H}_4\text{CH}(\text{OH})\text{C}_6\text{H}_3(\text{Cl})_3\text{OH}$ . (Carbinol, 2, 4, 6-trichloro-3-hydroxy-5-methyl-4'-sulphodiphenyl-).
- T as mothproofing agent. 439P, 1179, 1454P.
- 258-582-853-953-1021.
- m*-Toluenesulfonic acid, 6-chloro- $\alpha,\alpha$ -bis(5-chloro-2-hydroxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_3(\text{Cl})\text{SO}_3\text{H}$ . (Methane, bis(5-chloro-2-hydroxyphenyl)-6'-chloro-3'-sulphophenyl-).
- T as mothproofing agent. 458P, 1179.
- 258-582-853-953-1021.
- Toluenesulfonic acid,  $\alpha,\alpha$ -dihydroxytrichlorodiphenyl-, CU. (Methane, trichlorodihydroxysulphotriphenyl-).
- T as mothproofing agent. 402P, 410P, 450P, 1175, 1179.
- 258-582-853-953-1021.
- o*-Toluenesulfonic acid,  $\alpha$ -(5-chloro-2-hydroxyphenyl)- $\alpha$ -(3, 5-dichloro-2-hydroxyphenyl)-;  $\text{Cl}_2(\text{OH})\text{C}_6\text{H}_3\text{CH}(\text{Cl}(\text{OH})\text{C}_6\text{H}_4)\text{C}_6\text{H}_3(\text{SO}_3\text{H})_2$ . (Methane, 3, 5, 5'-trichloro-2, 2'-dihydroxy-2''-sulphotriphenyl-; 2, 2'-dihydroxy-3, 5, 5'-trichlorotriphenylmethane-2''-sulphonic acid).
- T as mothproofing agent. 1179, 1468P.
- 258-582-853-953-1021.
- Methane, sulphonic acid, dihydroxytrichlorotriphenyl, CU.
- T as mothproofing agent. 1175, 1463P.
- 258-582-854-952-1021.
- Methanesulfonic acid, bis(dichlorohydroxyphenyl)-, CU. (Methane, bis(dichlorohydroxyphenyl)-, sulphonated).
- T as mothproofing agent. 452P, 1179.
- 258-582-854-953-1021.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-hydroxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{Cl})\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-3, 3', 5, 5'-tetrachloro-2''-sulphotriphenyl).
- T as mothproofing agent. 434P, 449P, 450P, 1175, 1179, 1465P, 1468P.
- 258-582-854-953-1021.
- p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-hydroxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{Cl})\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-3, 3', 5, 5'-tetrachloro-4''-sulphotriphenyl; 2, 2'-dioxo-3, 3', 5, 5'-tetrachlor-4''-sulfotriphenylmethane).
- T as mothproofing agent. 1175, 1465P.
- 258-582-854-953-1021.
- p*-Toluenesulfonic acid,  $\alpha$ -(5-chloro-2-hydroxyphenyl)- $\alpha$ -(3-hydroxy-2, 4, 6-trichlorophenyl)-;  $\text{CH}(\text{C}_6\text{H}_3(\text{Cl})_3\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 4, 6, 5'-tetrachloro-3, 2'-dihydroxy-4''-sulphotriphenyl-; 3, 2'-dihydroxy-2, 4, 6, 5'-tetrachlorotriphenylmethane-4''-sulphonic acid).
- T as mothproofing agent. 439P, 1179, 1453P, 1454P.
- 258-582-854-953-1023.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(4-chloro-2-hydroxy-*m*-tolyl)-;  $\text{CH}(\text{C}_6\text{H}_4(\text{CH}_3)(\text{Cl})\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-3, 3'-dimethyl-4, 4'-dichloro-2''-sulphotriphenyl; 2, 2'-dichlor-3, 3'-dimethyl-6, 6'-dioxo-2''-sulfotriphenylmethane).
- T as mothproofing agent. 1175, 1457P.



258-582-854-953-1023.

*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-hydroxy-*p*-tolyl)-;  $\text{CH}(\text{C}_6\text{H}_4(\text{CH}_3)(\text{Cl})\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-4, 4'-dimethyl-5, 5'-dichloro-2''-sulfotriphenyl-; 2, 2'-dioxo-4, 4'-dimethyl-5, 5'-dichloro-2''-sulfotriphenylmethane).

T as mothproofing agent. 434P, 1175.

258-582-854-953-1023.

*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(4, 6-dichloro-3-hydroxy-*o*-tolyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{CH}_3)\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, bis(4, 6-dichloro-3-hydroxy-2-methylphenyl)-4'-sulphophenyl-; 3, 3'-dihydroxy-2, 2'-dimethyl-4, 4', 6, 6'-tetrachlorotriphenylmethane-4''-sulphonic acid).

T as mothproofing agent. 439P, 1179, 1453P, 1454P.

258-582-855-953-1021.

*o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-2-hydroxyphenyl)-;  $\text{CH}(\text{C}_6\text{H}_3(\text{Cl})_2\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-3, 3', 5, 5'-tetrachloro-5''-chloro-2''-sulphotriphenyl-; 2, 2'-dioxo-3, 3', 5, 5'-tetrachloro-5''-chloro-2''-sulfotriphenylmethane).

T as mothproofing agent. 1175, 1465P.

258-582-855-953-1021.

*o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-2-hydroxyphenyl)-;  $\text{CH}(\text{C}_6\text{H}_3(\text{Cl})_2\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 2, 2'-dihydroxy-3, 3', 5, 5'-tetrachloro-4''-chloro-2''-sulphotriphenyl-; 2, 2'-dioxo-3, 3', 5, 5'-tetrachloro-4''-chloro-2''-sulfotriphenylmethane).

T as mothproofing agent. 1175, 1465P.

258-582-855-953-1021.

*o*-Toluenesulfonic acid,  $\alpha$ -(3, 5-dichloro-2-hydroxyphenyl)- $\alpha$ -(2-hydroxy-3, 5, 6-trichlorophenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{SO}_3\text{H})$ . (Methane, 3, 5, 6, 3', 5'-pentachloro-2, 2'-dihydroxy-2''-sulphotriphenyl-; 2, 2'-dihydroxy-3, 3', 5, 5', 6-pentachlorotriphenylmethane-2''-sulphonic acid).

T as mothproofing agent. 1179, 1468P.

258-582-855-953-1021.

*p*-Toluenesulfonic acid,  $\alpha$ -(3, 5-dichloro-2-hydroxyphenyl)- $\alpha$ -(3-hydroxy-2, 4, 6-trichlorophenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{SO}_3\text{H})$ . (Methane, 2, 4, 6, 3', 5'-pentachloro-3, 2'-dihydroxy-4''-sulphotriphenyl-; 3, 2'-dihydroxy-2, 4, 6, 3', 5'-pentachlorotriphenylmethane-4''-sulphonic acid).

T as mothproofing agent. 439P, 1179, 1453P, 1454P.

258-582-855-953-1021.

Toluenesulfonic acid,  $\alpha$ -dihydroxypentachlorodiphenyl-, CU. (Methane, pentachloro-dihydroxytriphenyl sulphonic acid).

T as mothproofing agent. 410P, 450P, 1175, 1179, 1463P.

258-582-856-953-1021.

*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3-hydroxy-2, 4, 6-trichlorophenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{SO}_3\text{H})$ . (Methane, bis(2, 4, 6-trichloro-3-hydroxyphenyl)-4'-sulphophenyl-; 3, 3'-dihydroxy-2, 2', 4, 4', 6, 6'-hexachlorotriphenylmethane-4''-sulphonic acid).

T as mothproofing agent. 439P, 1179, 1453P, 1454P.

258-582-856-953-1023.

*p*-Toluenesulfonic acid, bis(5-hydroxy-2, 4, 6-trichloro-*m*-tolyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{CH}_3)(\text{OH})_2\text{C}_6\text{H}_3\text{SO}_3\text{H})$ . (Methane, bis(2, 4, 6-trichloro-3-hydroxy-5-methylphenyl)-4'-sulphophenyl-; 3, 3'-dihydroxy-5, 5'-dimethyl-2, 2', 4, 4', 6, 6'-hexachlorotriphenylmethane-4''-sulphonic acid).

T as mothproofing agent. 439P, 1179, 1453P, 1454P.

258-582-857-953-1021.

*m*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(3-hydroxy-2, 4, 6-trichlorophenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OH})(\text{Cl})_2\text{C}_6\text{H}_3(\text{Cl})\text{SO}_3\text{H})$ . (Methane, bis(2, 4, 6-trichloro-3-hydroxyphenyl)-6'-chloro-3'-sulphophenyl-; methane, 3, 3'-dihydroxy-2, 2', 2'', 4, 4', 6, 6'-heptachloro-triphenyl-5''-sulphonic acid).

T as mothproofing agent. 439P, 1179, 1453P, 1454P.

258-582-924.

3, 6-Naphthalenedisulfonic acid, 1, 8-dihydroxy-;  $(\text{OH})_2\text{C}_{10}\text{H}_6(\text{SO}_3\text{H})_2$ .

NT mosquito larvae, *Tineola biselliella*, and *Attagenus piceus*. 172, 739, 1176, 1178.

258-582-924-954-1021-1193.

Phosphonium hydrogen chromotropate, benzyltriphenyl-;  $(\text{C}_6\text{H}_5\text{CH}_2)_3(\text{C}_6\text{H}_5)_3\text{P}^+\text{SO}_3\text{C}_6\text{H}_4(\text{OH})_2(\text{HSO}_3^-)$ . (Benzyltriphenylphosphonium acid salt of chro-

motropic acid).

T as mothproofing agent. 867P, 1175.

258-582-951-997-1218.

Benzenesulfonic acid, 2, 4-dihydroxy-5-hexyl-, sodium salt;  $(\text{OH})_2\text{C}_6\text{H}_3(\text{C}_6\text{H}_{13})\text{SO}_3\text{Na}$ .

NT mosquito larvae. 487.

258-582-952-1023.

Methanesulfonic acid, bis(hydroxytolyl)-, CU. (Methane, bis(hydroxytolyl)-, sulphonated).

T as mothproofing agent. 452P, 1179.

258-582-953-1023.

*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(6-hydroxy-*m*-tolyl)-;  $\text{CH}(\text{C}_6\text{H}_4(\text{CH}_3)\text{OH})_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, 3, 3'-dimethyl-6, 6'-dihydroxy-2''-sulfotriphenyl-; 3, 3'-dimethyl-6, 6'-dioxo-2''-sulfotriphenylmethane; methane, bis(2-hydroxy-5-methylphenyl)-2''-sulphophenyl-).

T as mothproofing agent. 442P, 1175, 1179, 1457P, 1460P.

258-588-924-1218.

2-Naphthol-7, 8-disulfonic acid, sodium salt. ("G" salt; sodium salt of 7, 8 disulfonic  $\beta$ -naphthol).

NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.

258-591-671-953-1022.

Benzenesulfonic acid, *p*-benzyloxy-, toluidine salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{SO}_3\text{NH}_2\text{C}_6\text{H}_4\text{CH}_3$ . (Benzenesulfonic acid, *p*-phenylmethoxy-, toluidine salt).

Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.

258-591-952-1021-1218.

Benzenesulfonic acid, *p*-benzyloxy-, sodium salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{SO}_3\text{Na}$ . (Benzenesulfonic acid, *p*-phenylmethoxy-, sodium salt).

Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.

258-592-841-854-953-1023-1199.

*o*-Toluenesulfonic acid, 5-bromo- $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, ammonium salt;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OCH}_3)_2\text{C}_6\text{H}_3(\text{Br})\text{SO}_3\text{NH}_4)$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-4'-bromo-2''-sulphophenyl-, ammonium salt; 2, 2'-dimethoxy-3, 5, 3', 5'-tetrachloro-4''-bromotriphenylmethane-6''-sulphonic acid, ammonium salt).

T as mothproofing agent. 447P, 457P, 1179.

258-592-841-854-953-1023-1196.

*o*-Toluenesulfonic acid, 5-bromo- $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, potassium salt;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OCH}_3)_2\text{C}_6\text{H}_3(\text{Br})\text{SO}_3\text{K})$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-4'-bromo-2''-sulphophenyl-, potassium salt; 2, 2'-dimethoxy-3, 5, 3', 5'-tetrachloro-4''-bromotriphenylmethane-6''-sulphonic acid, potassium salt).

T as mothproofing agent. 447P, 457P, 1179.

258-592-841-854-953-1023-1218.

*o*-Toluenesulfonic acid, 5-bromo- $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, sodium salt;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{OCH}_3)_2\text{C}_6\text{H}_3(\text{Br})\text{SO}_3\text{Na})$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-4'-bromo-2''-sulphophenyl-, sodium salt; 2, 2'-dimethoxy-3, 5, 3', 5'-tetrachloro-4''-bromotriphenylmethane-6''-sulphonic acid, sodium salt).

T as mothproofing agent. 447P, 457P, 1179.

258-592-852-953-1023.

*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-methoxyphenyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, bis(5-chloro-2-methoxyphenyl)-2''-sulphophenyl-).

T as mothproofing agent. 447P, 1179.

258-592-852-953-1023-1199.

*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-methoxy-*m*-tolyl)-, ammonium salt;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{CH}_3)(\text{OCH}_3)_2\text{C}_6\text{H}_3\text{SO}_3\text{NH}_4)$ . (Methane, bis(5-chloro-2-methoxy-3-methylphenyl)-4'-sulphophenyl-, ammonium salt; 2, 2'-dimethoxy-3, 3'-dimethyl-5, 5'-dichlorotriphenylmethane-4''-sulphonic acid, ammonium salt).

T as mothproofing agent. 447P, 457P, 1179.

258-592-852-953-1023-1196.

*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-methoxy-*m*-tolyl)-, potassium salt;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{CH}_3)(\text{OCH}_3)_2\text{C}_6\text{H}_3\text{SO}_3\text{K})$ . (Methane, bis(5-chloro-2-methoxy-3-methylphenyl)-4'-sulphophenyl-, potassium salt; 2, 2'-dimethoxy-3, 3'-dimethyl-5, 5'-dichlorotriphenylmethane-4''-sulphonic acid, potassium salt).

T as mothproofing agent. 447P, 457P, 1179.

258-592-852-953-1023-1218.

*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-methoxy-*m*-tolyl)-, sodium salt;  $\text{CH}(\text{ClC}_6\text{H}_3(\text{CH}_3)(\text{OCH}_3)_2\text{C}_6\text{H}_3\text{SO}_3\text{Na})$ . (Methane, bis(5-chloro-2-methoxy-3-



- methoxyphenyl)-4'-sulphophenyl-, sodium salt; 2, 2'-dimethoxy-3, 3'-dimethyl-5, 5'-dichlorotriphenylmethane-4'-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-853-953-1025.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(5-chloro-2-methoxy-m-tolyl)-;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, bis(5-chloro-2-methoxy-3-methylphenyl)-2'-sulphophenyl).
- T as mothproofing agent. 447P, 1179.
- 258-592-853-952-1002-1021.
- o*-Toluenesulfonic acid, 2-butoxy-6-chloro- $\alpha$ -(2-butoxy-3, 5-dichlorophenyl)-;  $\text{CH}_2(\text{ClC}_6\text{H}_3\text{OC}_6\text{H}_4)_2\text{C}_6\text{H}_4(\text{Cl})(\text{OC}_6\text{H}_4)\text{SO}_3\text{H}$ . (Methane, 2, 2'-di-*n*-butoxy-3, 5, 5'-trichloro-3'-sulphodiphenyl-; 2, 2'-di-*n*-butoxy-3, 5, 5'-trichlorodiphenylmethane-3'-sulphonic acid).
- T as mothproofing agent. 457P, 1179.
- 258-592-853-953-1002-1021-1109.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(2-butoxy-5-chloro-*m*-tolyl)-, ammonium salt;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OC}_6\text{H}_4)_2\text{C}_6\text{H}_4(\text{Cl})\text{SO}_3\text{NH}_4$ . (Methane, bis(2-*n*-butoxy-5-chloro-3-methylphenyl)-5'-chloro-2'-sulphophenyl-, ammonium salt; 2, 2'-di-*n*-butoxy-3, 3'-dimethyl-5, 5', 3'-trichloro-triphenylmethane-6''-sulphonic acid, ammonium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-853-953-1002-1021-1109.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(2-butoxy-5-chloro-*m*-tolyl)-, potassium salt;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OC}_6\text{H}_4)_2\text{C}_6\text{H}_4(\text{Cl})\text{SO}_3\text{K}$ . (Methane, bis(2-*n*-butoxy-5-chloro-3-methylphenyl)-5'-chloro-2'-sulphophenyl-, potassium salt; 2, 2'-di-*n*-butoxy-3, 3'-dimethyl-5, 5', 3'-trichloro-triphenylmethane-6''-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-853-953-1002-1021-1109.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(2-butoxy-5-chloro-*m*-tolyl)-, sodium salt;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OC}_6\text{H}_4)_2\text{C}_6\text{H}_4(\text{Cl})\text{SO}_3\text{Na}$ . (Methane, bis(2-*n*-butoxy-5-chloro-3-methylphenyl)-5'-chloro-2'-sulphophenyl-, sodium salt; 2, 2'-di-*n*-butoxy-3, 3'-dimethyl-5, 5', 3'-trichloro-triphenylmethane-6''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-853-953-1002-1021-1109.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(5-chloro-2-methoxyphenyl)-, ammonium salt;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OCH}_3)_2\text{C}_6\text{H}_4(\text{Cl})\text{SO}_3\text{NH}_4$ . (Methane, bis(5-chloro-2-methoxyphenyl)-5'-chloro-2'-sulphophenyl-, ammonium salt; 2, 2'-dimethoxy-5, 5', 3'-trichlorotriphenylmethane-6''-sulphonic acid, ammonium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-853-953-1023-1196.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(5-chloro-2-methoxyphenyl)-, potassium salt;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OCH}_3)_2\text{C}_6\text{H}_4(\text{Cl})\text{SO}_3\text{K}$ . (Methane, bis(5-chloro-2-methoxyphenyl)-5'-chloro-2'-sulphophenyl-, potassium salt; 2, 2'-dimethoxy-5, 5', 3'-trichlorotriphenylmethane-6''-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-853-953-1023-1218.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(5-chloro-2-methoxyphenyl)-, sodium salt;  $\text{CH}(\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OCH}_3)_2\text{C}_6\text{H}_4(\text{Cl})\text{SO}_3\text{Na}$ . (Methane, bis(5-chloro-2-methoxyphenyl)-5'-chloro-2'-sulphophenyl-, sodium salt; 2, 2'-dimethoxy-5, 5', 3'-trichlorotriphenylmethane-6''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-962-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-cyclohexyloxy-3, 5-dichlorophenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_{11})_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-cyclohexyloxyphenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-di-cyclohexyloxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1000-1021-1109.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-isopentoxylphenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_{11})_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(2-isopentoxyl-3, 5-dichlorophenyl)-2'-sulphophenyl-, ammonium salt; 2, 2'-diisocamylxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, ammonium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1000-1021-1109.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-isopentoxylphenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_{11})_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(2-isopentoxyl-3, 5-dichlorophenyl)-2'-sulphophenyl-, potassium salt; 2, 2'-diisocamylxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1000-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-isopentoxylphenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_{11})_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(2-isopentoxyl-3, 5-dichlorophenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-diisocamylxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1109.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-isobutoxyphenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(2-isobutoxy-3, 5-dichlorophenyl)-2'-sulphophenyl-, ammonium salt; 2, 2'-diisobutoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, ammonium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1109.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-isobutoxy-3, 5-dichlorophenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(2-isobutoxy-3, 5-dichlorophenyl)-2'-sulphophenyl-, potassium salt; 2, 2'-diisobutoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1196.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-isobutoxy-3, 5-dichlorophenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(2-isobutoxy-3, 5-dichlorophenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-diisobutoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(2-butoxy-3, 5-dichlorophenyl)-2'-sulphophenyl-, potassium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(2-butoxy-3, 5-dichlorophenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-cyclohexyloxy-3, 5-dichlorophenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_{11})_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(3, 5-dichloro-2-cyclohexyloxyphenyl)-2'-sulphophenyl-, potassium salt; 2, 2'-di-cyclohexyloxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-cyclohexyloxy-3, 5-dichlorophenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_{11})_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-cyclohexyloxyphenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-di-cyclohexyloxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1218.
- o*-Toluenedisulfonic acid,  $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_5)_2\text{C}_6\text{H}_4(\text{SO}_3\text{Na})_2$ . (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-2, 4'-disulphophenyl-, sodium salt;

- 2, 2'-di-*n*-butoxy-, 3, 5, 3', 5'-tetrachlorotriphenylmethane-2'', 4''-disulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 1179.
- 258-592-854-953-1004-1021-1033.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-allyloxy-3, 5-dichlorophenyl)-;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_2\text{CH}:\text{CH}_2)_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-2'-sulphophenyl-; 2, 2'-dialloxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1004-1021-1109.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-*n* or isopropoxyphenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_6\text{H}_7)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(3, 5-dichloro-2-*n* (or iso) propoxyphenyl-2'-sulphophenyl)-, ammonium salt; 2, 2'-di- (n- or iso) propoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1004-1021-1190.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-*n* or isopropoxyphenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_6\text{H}_7)_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(3, 5-dichloro-2-*n* (or iso) propoxyphenyl-2'-sulphophenyl)-, potassium salt; 2, 2'-di- (n- or iso) propoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1004-1021-1218.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-*n* or isopropoxyphenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_6\text{H}_7)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-*n* (or iso) propoxyphenyl-2'-sulphophenyl)-, sodium salt; 2, 2'-di- (n- or iso) propoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1013-1021-1109.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-ethoxyphenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(3, 5-dichloro-2-ethoxyphenyl)-2'-sulphophenyl)-, ammonium salt; 2, 2'-diethoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1012-1021-1190.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-ethoxyphenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(3, 5-dichloro-2-ethoxyphenyl)-2'-sulphophenyl)-, potassium salt; 2, 2'-diethoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1012-1021-1218.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-ethoxyphenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-ethoxyphenyl)-2'-sulphophenyl)-, sodium salt; 2, 2'-diethoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1109.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-2'-sulphophenyl)-, ammonium salt; 2, 2'-dimethoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1023-1190.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-2'-sulphophenyl)-, potassium salt; 2, 2'-dimethoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, potassium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1002-1021-1190.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-2'-sulphophenyl)-, sodium salt; 2, 2'-dimethoxy-3, 5, 3', 5'-tetrachlorotriphenylmethane-2''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-854-953-1023-1218.  
*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-4'-sulphophenyl)-, sodium salt; 3, 5, 3', 5'-tetrachloro-4, 4'-dimethoxytriphenylmethane-2''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 1179.
- 258-592-854-953-1023-1218.  
*p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_3)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-4'-sulphophenyl)-, sodium salt; 3, 5, 3', 5'-tetrachloro-4, 4'-dimethoxytriphenylmethane-2''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 1179.
- 258-592-854-953-1023-1218.  
*o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-benzyloxy-3, 5-dichlorophenyl)-, sodium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_5)_2\text{C}_6\text{H}_4\text{SO}_3\text{Na}$ . (Methane, bis(3, 5-dichloro-2-benzyloxyphenyl)-2'-sulphophenyl)-, sodium salt).  
T as mothproofing agent. 447P, 1179.
- 258-592-855-951-962-1021-1109.  
*o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichlorocyclohexoxy)-, ammonium salt?  $[(\text{Cl})_2\text{C}_6\text{H}_4\text{O}]_2\text{CH}(\text{C}_6\text{H}_4(\text{Cl})(\text{SO}_3\text{NH}_4))$ . (Methane, dicyclohexoxy-3, 5, 3', 5', 4''-pentachloro-2''-sulphotriphenyl)-, ammonium salt; dicyclohexyloxy-3, 5, 3', 5', 4''-pentachlorotriphenylmethane-6''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-951-962-1021-1190.  
*o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichlorocyclohexoxy)-, potassium salt?  $[(\text{Cl})_2\text{C}_6\text{H}_4\text{O}]_2\text{CH}(\text{C}_6\text{H}_4(\text{Cl})(\text{SO}_3\text{K}))$ . (Methane, dicyclohexoxy-3, 5, 3', 5', 4''-pentachloro-2''-sulphotriphenyl)-, potassium salt; dicyclohexyloxy-3, 5, 3', 5', 4''-pentachlorotriphenylmethane-6''-sulphonic acid, potassium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-951-962-1021-1218.  
*o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichlorocyclohexoxy)-, sodium salt?  $[(\text{Cl})_2\text{C}_6\text{H}_4\text{O}]_2\text{CH}(\text{C}_6\text{H}_4(\text{Cl})(\text{SO}_3\text{Na}))$ . (Methane, dicyclohexoxy-3, 5, 3', 5', 4''-pentachloro-2''-sulphotriphenyl)-, sodium salt; dicyclohexyloxy-3, 5, 3', 5', 4''-pentachlorotriphenylmethane-6''-sulphonic acid, sodium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1109.  
*o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_4\text{H}_9)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-5-chloro-2'-sulphophenyl)-, ammonium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 3''-pentachlorotriphenylmethane-6''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1109.  
*o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_4\text{H}_9)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-4'-chloro-2'-sulphophenyl)-, ammonium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 4''-pentachlorotriphenylmethane-6''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1190.  
*p*-Toluenesulfonic acid,  $\alpha$ -(2-butoxy-3, 5-dichlorophenyl)- $\alpha$ -(3-butoxy-2, 4, 6-trichlorophenyl)-, ammonium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_4\text{H}_9)(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_4\text{H}_9)_2\text{C}_6\text{H}_4\text{SO}_3\text{NH}_4$ . (Methane, 2, 2'-di-*n*-butoxy-3, 5, 3', 4', 6'-pentachloro-4''-sulphotriphenyl)-, ammonium salt; 2, 3'-*n*-butoxy-3, 5, 3', 4', 6'-pentachlorotriphenylmethane-4''-sulphonic acid, ammonium salt).  
T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1190.  
*o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, potassium salt;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_4\text{OC}_4\text{H}_9)_2\text{C}_6\text{H}_4\text{SO}_3\text{K}$ . (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-4'-chloro-2'-sulphophenyl)-, potassium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 4''-pentachlorotriphenylmethane-6''-sulphonic acid, potassium salt).  
T as mothproofing agent. 447P, 457P, 1179.

- OC<sub>6</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>K. (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-5-chloro-2'-sulphophenyl-, potassium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 3"-pentachlorotriphenylmethane-6"-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1196.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, potassium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>-OC<sub>4</sub>H<sub>9</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>K. (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-4'-chloro-2'-sulphophenyl-, potassium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1196.
- p*-Toluenesulfonic acid,  $\alpha$ -(2-butoxy-3, 5-dichlorophenyl)- $\alpha$ -(3-butoxy-2, 4, 6-trichlorophenyl)-, potassium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>4</sub>H<sub>9</sub>)(Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>4</sub>H<sub>9</sub>)C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>K. (Methane, bis(2'-di-*n*-butoxy-3, 5, 2', 4', 6'-pentachloro-4"-sulphotriphenyl-, potassium salt; 2, 3'-*n*-butoxy-3, 5, 3', 4', 6'-pentachlorotriphenylmethane-4"-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha$ -(2-butoxy-3, 5-dichlorophenyl)- $\alpha$ -(5-butoxy-2, 4, 6-trichlorophenyl)-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>4</sub>H<sub>9</sub>)(Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>4</sub>H<sub>9</sub>)C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na. (Methane, bis(2'-di-*n*-butoxy-3, 5, 2', 4', 6'-pentachloro-2"-sulphotriphenyl-, sodium salt; 2, 5'-di-*n*-butoxy-3, 5, 2', 4', 6'-pentachlorotriphenylmethane-2"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 1179.
- 258-592-855-953-1002-1021-1218.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>4</sub>H<sub>9</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>Na. (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-5'-chloro-2'-sulphophenyl-, sodium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 3"-pentachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1218.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(2-butoxy-3, 5-dichlorophenyl)-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>4</sub>H<sub>9</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>Na. (Methane, bis(2-*n*-butoxy-3, 5-dichlorophenyl)-4'-chloro-2'-sulphophenyl-, sodium salt; 2, 2'-di-*n*-butoxy-3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1002-1021-1218.
- p*-Toluenesulfonic acid,  $\alpha$ -(2-butoxy-3, 5-dichlorophenyl)- $\alpha$ -(3-butoxy-2, 4, 6-trichlorophenyl)-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>4</sub>H<sub>9</sub>)(Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>4</sub>H<sub>9</sub>)C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na. (Methane, bis(2'-di-*n*-butoxy-3, 5, 2', 4', 6'-pentachloro-4"-sulphotriphenyl-, sodium salt; 2, 3'-*n*-butoxy-3, 5, 2', 4', 6'-pentachlorotriphenylmethane-4"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1012-1021-1196.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-2-ethoxyphenyl)-, ammonium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>NH<sub>4</sub>. (Methane, bis(3, 5-dichloro-2-ethoxyphenyl)-4'-chloro-2'-sulphophenyl-, ammonium salt; 2, 2'-diethoxy-3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, ammonium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1012-1021-1218.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-2-ethoxyphenyl)-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>Na. (Methane, bis(3, 5-dichloro-2-ethoxyphenyl)-4'-chloro-2'-sulphophenyl-, sodium salt; 2, 2'-diethoxy-3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1012-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis[3, 5-dichloro-2-( $\beta$ -methoxyethoxy)phenyl]-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na. (Methane, bis(3, 5-dichloro-2-( $\beta$ -methoxyethoxy)phenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-( $\beta$ -methoxyethoxy)-3, 5, 3', 5', 4"-tetrachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 1179.
- 258-592-855-953-1012-1021-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis[3, 5-dichloro-2-(2-methoxyethoxy)phenyl]-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na. (Methane, bis(2-methoxyethoxy)phenyl)-4-sulphophenyl-, sodium salt).
- T as mothproofing agent. 447P, 1179.
- 258-592-855-953-1012-1021-1218.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, ammonium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>NH<sub>4</sub>. (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-5'-chloro-2'-sulphophenyl-, ammonium salt; 2, 2'-dimethoxy-3, 5, 3', 5', 3"-pentachlorotriphenylmethane-6"-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1023-1109.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-3-methoxyphenyl)-, ammonium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>NH<sub>4</sub>. (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-5'-chloro-2'-sulphophenyl-, ammonium salt; dibenzyloxy 3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, ammonium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1023-1109.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichlorobenzoyl)-, ammonium salt; [(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>O)]<sub>2</sub>:CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>K)]. (Methane, dibenzyloxy-3, 5, 3', 5', 4"-pentachloro-2"-sulphotriphenyl-, potassium salt; dibenzyloxy 3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, potassium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1023-1196.
- o*-Toluenesulfonic acid, 4-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-3-methoxyphenyl)-, potassium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>K. (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-5'-chloro-2'-sulphophenyl-, potassium salt; 2, 2'-dimethoxy-3, 5, 3', 5', 3"-pentachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1023-1218.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichlorobenzoyl)-, potassium salt; [(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>O)]<sub>2</sub>:CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>K)]. (Methane, dibenzyloxy-3, 5, 3', 5', 4"-pentachloro-2"-sulphotriphenyl-, potassium salt; dibenzyloxy 3, 5, 3', 5', 4"-pentachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 457P, 1179.
- 258-592-855-953-1023-1218.
- o*-Toluenesulfonic acid, 5-chloro- $\alpha,\alpha$ -bis(3, 5-dichloro-2-methoxyphenyl)-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(Cl)SO<sub>3</sub>Na. (Methane, bis(3, 5-dichloro-2-methoxyphenyl)-4'-chloro-2'-sulphophenyl-, sodium salt; dimethoxy-3', 3", 5', 5"-tetrachloro-, triphenylmethane-2-sulphonic acid, 4-chloro-2', 2"-, sodium salt).
- T as mothproofing agent. 447P, 1179.
- 258-592-953-1023.
- p*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(2-methoxyphenyl)-; CH(C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H. (Methane, bis(2-methoxyphenyl)-4-sulphophenyl-, sodium salt).
- T as mothproofing agent. 447P, 1179.
- 258-594-854-953-1012-1023-1218.
- o*-Toluenesulfonic acid,  $\alpha,\alpha$ -bis[3, 5-dichloro-2-(2-methoxyethoxy)phenyl]-, sodium salt; CH(Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na. (Methane, bis(3, 5-dichloro-2-( $\beta$ -methoxyethoxy)phenyl)-2'-sulphophenyl-, sodium salt; 2, 2'-( $\beta$ -methoxyethoxy)-3, 5, 3', 5', 4"-tetrachlorotriphenylmethane-6"-sulphonic acid, sodium salt).
- T as mothproofing agent. 447P, 1179.

- 258-657-951.  
Benzenesulfonic acid, 4-hydrazino-;  $\text{H}_2\text{SO}_3\text{C}_6\text{H}_4\text{NH}_2\text{NH}_2$ . (Phenylhydrazine-*p*-sulfonic acid).  
T screwworms at m.l.c. 0.33-0.67%. 186.
- 258-665-952-1022.  
Benzenesulfonic acid, *or*-formyl-, methylphenylhydrazones;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_3)\text{N}:\text{CHC}_6\text{H}_4\text{SO}_3\text{H}$ . (Benzylidene-phenylmethylhydrazones sulphonate).  
T as mothproofing agent. 330P, 336P, 874P, 1176.
- 258-665-671-924-951.  
Benzenesulfonic acid, 4-(4'-aminonaphthalene-2-)-;  $\text{H}_2\text{NC}_{10}\text{H}_6\text{N}:\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (1-Amino naphthalene-4-asobenzene-*p*-sulfonate).  
ST greenhouse red spider at 2%. 1481.
- 258-665-671-924-1218.  
Naphthylamine black;  $\text{H}_2\text{NC}_{10}\text{H}_6\text{N}:\text{NC}_{10}\text{H}_6\text{N}:\text{NC}_{10}\text{H}_6\text{N}:\text{H}_2\text{SO}_3\text{Na}$ .  
T moths, *Anthrenus*, *Attagenus*, and other pests. 680P, 1179.
- 258-665-671-953.  
Benzenesulfonic acid, 4-(4'-aminophenylazo)-;  $\text{H}_2\text{NC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (4-Amino azobenzene-4'-sulfonic acid).  
ST greenhouse red spider at 2%; NT southern army worm at 4%. 1481.
- 258-665-672-924-952-1218.  
Congo red R;  $\text{C}_{20}\text{H}_{14}\text{O}_6\text{N}_2\text{S}_2\text{Na}_2$ . (Sodium diphenyl-azo-bis( $\alpha$ -naphthylaminesulfonate)-).  
NT clothes moth. 974, 1176.
- 258-665-691-952-1218.  
Methyl orange;  $\text{NaSO}_3\text{C}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_4\text{N}(\text{CH}_3)_2$ . (Dimethyl aniline orange; gold orange; helianthin; mandarin orange; orange III; Porrier's orange III; sodium salt of sulphobenzene-azo-dimethyl aniline; tropaeoline D; trapaeoline).  
T *Lucilia cuprina* larvae; NT clothes moth. 849, 974, 1176.
- 258-671-851-951-.  
Metanilic acid, 2-chloro-;  $\text{Cl}(\text{NH}_2)\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (4-Chloroaniline-3-sulfonic acid). 363P.
- 258-671-851-951-1021.  
*m*-Toluenesulfonic acid, 2-amino-4-chloro-;  $\text{CH}_3(\text{NH}_2)(\text{Cl})\text{C}_6\text{H}_3\text{SO}_3\text{H}$ . (2-Chloro-4-amino-1-methylbenzene-5-sulfonic acid). 363P.
- 258-671-851-951-1021.  
*m*-Toluenesulfonic acid, 4-amino-3-chloro-;  $\text{CH}_3(\text{Cl})(\text{NH}_2)\text{C}_6\text{H}_3\text{SO}_3\text{H}$ . (3-Chloro-2-amino-1-methylbenzene-5-sulfonic acid). 363P.
- 258-671-852-951.  
Sulfanilic acid, 2, 5-dichloro-;  $\text{Cl}_2(\text{NH}_2)\text{C}_6\text{H}_3\text{SO}_3\text{H}$ . (2, 5-Dichloroaniline-4-sulfonic acid). 363P.
- 258-671-924.  
Naphthionic acid;  $\text{NH}_2\text{C}_{10}\text{H}_6\text{SO}_3\text{H} \cdot \frac{1}{2}\text{H}_2\text{O}$ . (1-Naphthylamine-4-sulfonic acid; 4-amino-1-naphthalene-sulfonic acid).  
NT silkworm. 559, 1432.
- 258-671-924.  
2-Naphthalenesulfonic acid, 8-amino-;  $\text{NH}_2\text{C}_{10}\text{H}_6\text{SO}_3\text{H} \cdot \text{H}_2\text{O}$ . (1-Naphthylamine-7-sulfonic acid). 363P.
- 258-671-924.  
2, 4-Naphthalenedisulfonic acid, 1-amino-;  $\text{NH}_2\text{C}_{10}\text{H}_6(\text{SO}_3\text{H})_2$ . (1-Naphthylamine-2, 4-disulfonic acid). 371P.
- 258-671-924.  
3, 6, 8-Naphthalenetrisulfonic acid, 1-amino-;  $\text{H}_2\text{NC}_{10}\text{H}_6(\text{SO}_3\text{H})_3$ . (1-Naphthylamine-3, 6, 8-trisulfonic acid).  
T as mothproofing agent. 331P, 1176.
- 258-671-924-951-1021.  
*p*-Toluenesulfonic acid, 1-naphthylamine salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{H} \cdot \text{NH}_2\text{C}_{10}\text{H}_7$ . ( $\alpha$ -Naphthylamine *p*-toluene sulfonate).  
34% T culicine mosquito larvae. 172, 1178.
- 258-671-924-1114.  
Naphthionic acid, barium salt;  $(\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3)_2\text{Ba}$ . (Barium naphthionate).  
NT *Pieris rapae*. 635.
- 258-671-924-1114.  
1-Naphthalenesulfonic acid, 2-amino-, barium salt;  $(\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3)_2\text{Ba}$ . (Barium  $\beta$  naphthylamine sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-671-924-1142.  
Naphthionic acid, copper salt;  $(\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3)_2\text{Cu}$ . (Copper naphthionate).  
NT *Pieris rapae*. 635.
- 258-671-924-1142.  
1-Naphthalenesulfonic acid, 2-amino-, copper salt;  $(\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3)_2\text{Cu}$ . (Copper  $\beta$  naphthylamine sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-671-924-1142.  
Naphthionic acid, lead salt;  $(\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3)_2\text{Pb}$ . (Lead naphthionate).  
NT *Pieris rapae*. 635.
- 258-671-924-1166.  
1-Naphthalenesulfonic acid, 2-amino-, lead salt;  $(\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3)_2\text{Pb}$ . (Lead  $\beta$  naphthylamine sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-671-924-1218.  
Naphthionic acid, sodium salt;  $\text{H}_2\text{NC}_{10}\text{H}_6\text{SO}_3\text{Na}$ . (Sodium naphthionate).  
T *Aphis rumicis*; NT *Pieris rapae*. 635.
- 258-671-951.  
Benzenesulphonic acid, *o*-amino-;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (Orthanilic acid; *o*-anilinesulfonic acid).  
NT mosquito larvae. 172, 363P, 1178.
- 258-671-951.  
Metanilic acid;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (*m*-Aminobenzene-sulfonic acid).  
26.2% T codling moth larvae. 915, 1432.
- 258-671-951.  
Sulfanilic acid;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (*p*-Aminobenzene-sulfonic acid; *p*-anilinesulfonic acid).  
45% T codling moth larvae; NT *Melanoplus m. mexicanus*. 331P, 915, 1150, 1176, 1432.
- 258-671-951-1021.  
*m*-Toluenesulfonic acid, 2-amino-;  $\text{H}_2\text{N}(\text{CH}_3)\text{C}_6\text{H}_3\text{SO}_3\text{H}$ . (4-Amino-1-methylbenzene-3-sulfonic acid). 363P.
- 258-671-951-1022.  
3, 5-Xylenesulfonic acid, 2-amino-;  $\text{H}_2\text{N}(\text{CH}_3)_2\text{C}_6\text{H}_3\text{SO}_3\text{H}$ . (1, 3-Dimethyl-4-aminobenzene-5-sulfonic acid). 363P.
- 258-671-951-1142.  
Sulfanilic acid, copper salt;  $(\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3)_2\text{Cu}$ . (Copper sulfanilic acid).  
ST *Pieris rapae*. 635.
- 258-671-951-1166.  
Sulfanilic acid, lead salt;  $(\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3)_2\text{Pb}$ .  
NT *Pieris rapae*. 635.
- 258-671-952-1021.  
*p*-Toluenesulfonic acid, aniline salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{H} \cdot \text{NH}_2\text{C}_6\text{H}_5$ . (Aniline *p*-toluene sulfonate).  
NT culicine mosquito larvae. 172, 1178.
- 258-671-952-1021.  
*p*-Toluenesulfonic acid, sulfanilic acid salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{H} \cdot \text{H}_2\text{NC}_6\text{H}_4\text{SO}_3\text{H}$ . (Sulphanilic acid, *p*-toluene sulfonate).  
NT culicine mosquito larvae. 172, 1178.
- 258-671-961-1027.  
Sulfonic acids, substituted, cyclohexylamine salt,  $\text{C}_6\text{H}_{11}\text{NH}_2\text{HSO}_3\text{YR}'\text{XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S or  $\text{SO}_2$ , R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-671-983-1389.  
9-Octadecanesulfonic acid, 1-amino-, sulfate;  $\text{CH}_3(\text{CH}_2)_7\text{CH}(\text{SO}_3\text{H})\text{CH}_2(\text{CH}_2)_7\text{CH}_2\text{NH}_2\text{H}_2\text{SO}_4$ . 71P.
- 258-671-986-1027.  
Sulfonic acids, substituted, cetylamine salt,  $\text{C}_{16}\text{H}_{33}\text{NH}_2\text{HSO}_3\text{YR}'\text{XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S or  $\text{SO}_2$ , R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-671-989-1022-1027.  
Sulfonic acids, substituted, dodecyltrimethylamine salt,  $\text{C}_{12}(\text{CH}_3)_3\text{N}(\text{C}_2\text{H}_5)_3\text{HSO}_3\text{YR}'\text{XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S or  $\text{SO}_2$ , R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-672-951.  
1, 3-Benzenedisulfonic acid, 2, 4-diamino-;  $(\text{SO}_3\text{H})_2\text{C}_6\text{H}_3(\text{NH}_2)_2$ . (1, 3-Phenylenediamine-4, 6-disulfonic acid). 363P.

- 258-730.  
3-Pyridinesulfonic acid;  $\text{C}_5\text{H}_4\text{N}(\text{SO}_3\text{H})$ . (Pyridine- $\beta$ -sulphonic acid).  
T *Aphis rumicis* on nasturtium. 1153, 1178.
- 258-730-740-1021-1045.  
Sulfonic acids, substituted, nicotine salt, CU;  $\text{C}_{10}\text{H}_{14}\text{N}_2\text{HSO}_3\text{YR'XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent.  
282P, 1432.
- 258-730-950.  
8-Quinoline sulfonic acid;  $\text{HO}_2\text{SC}_8\text{H}_7\text{N}$ .  
NT *Pieris rapae*. 635.
- 258-730-950.  
Acridinesulfonic acid, CU;  $\text{HO}_2\text{SC}_{13}\text{H}_9\text{N}$ .  
T as mothproofing agent. 331P, 1176.
- 258-730-950-1027.  
Sulfonic acids, substituted, quinoline salt, CU;  $\text{C}_8\text{H}_7\text{NHSO}_3\text{YR'XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent.  
282P, 1432.
- 258-730-950-1114.  
5-Quinoline sulfonic acid, barium salt;  $\text{Ba}(\text{O}_2\text{SC}_8\text{H}_6\text{N})_2$ .  
NT *Pieris rapae*. 635.
- 258-730-950-1114.  
8-Quinoline sulfonic acid, barium salt;  $\text{Ba}(\text{O}_2\text{SC}_8\text{H}_6\text{N})_2$ .  
NT *Pieris rapae*. 635.
- 258-730-950-1126.  
4-Isquinolinesulfonic acid, calcium salt;  $\text{Ca}(\text{O}_2\text{SC}_8\text{H}_6\text{N})_2$ . (Calcium salt 6-isquinoline, 8-sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-730-950-1142.  
5-Quinolinesulfonic acid, copper salt;  $\text{Cu}(\text{O}_2\text{SC}_8\text{H}_6\text{N})_2$ .  
NT *Pieris rapae*. 635.
- 258-730-950-1142.  
8-Quinolinesulfonic acid, copper salt;  $\text{Cu}(\text{O}_2\text{SC}_8\text{H}_6\text{N})_2$ .  
NT *Pieris rapae*. 635.
- 258-730-950-1166.  
8-Quinolinesulfonic acid, lead salt, Pb ( $\text{O}_2\text{SC}_8\text{H}_6\text{N}$ )<sub>2</sub>.  
NT *Pieris rapae*. 635.
- 258-730-950-1218.  
5-Quinolinesulfonic acid, sodium salt;  $\text{NaO}_2\text{SC}_8\text{H}_6\text{N}$ .  
NT *Pieris rapae*. 635.
- 258-730-950-1218.  
8-Quinolinesulfonic acid, sodium salt;  $\text{NaO}_2\text{SC}_8\text{H}_6\text{N}$ .  
NT *Pieris rapae*. 635.
- 258-730-950-1218.  
4-Isquinolinesulfonic acid, sodium salt;  $\text{NaO}_2\text{SC}_8\text{H}_6\text{N}$ .  
NT *Pieris rapae*. 635.
- 258-730-1027.  
Sulfonic acids, substituted, piperidine salts, CU;  $\text{C}_8\text{H}_{10}\text{NHSO}_3\text{YR'XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent.  
282P, 1432.
- 258-730-1027.  
Sulfonic acids, substituted, pyridine salt, CU;  $\text{C}_5\text{H}_5\text{NHSO}_3\text{YR'XR}$ .  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S, or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent.  
282P, 1432.
- 258-740-851-950-1011.  
Carbasolesulfonic acid, chloro-9-ethyl-? ( $\text{ClC}_{12}\text{H}_9\text{N}$ )-( $\text{C}_6\text{H}_5$ )SO<sub>3</sub>H? (Carbasolesulphonic acid, N-ethyl-chloro-).  
T as mothproofing agent. 873P, 1176.
- 258-781-852-953-1023.  
m-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(p-chlorobenzylthio)-;  $\text{HO}_2\text{SC}_6\text{H}_4\text{CH}(\text{SCH}_2\text{C}_6\text{H}_4\text{Cl})_2$ .  
T as mothproofing agent. 523P.
- 258-781-852-953-1023.  
o-Toluenesulfonic acid,  $\alpha,\alpha$ -bis(p-chlorobenzylthio)-;  $\text{HO}_2\text{SC}_6\text{H}_4\text{CH}(\text{SCH}_2\text{C}_6\text{H}_4\text{Cl})_2$ .  
T as mothproofing agent. 523P.
- 258-843-953-1021.  
p-Toluenesulfonic acid, 2, 4, 6-tribromophenyl ester;  $\text{Br}_3\text{C}_6\text{H}_2\text{OSO}_3\text{C}_6\text{H}_4\text{CH}_3$ .  
NT as mothproofing agent. 239.
- 258-851-924-954-1021-1193.  
Phosphonium compound, chlorobenzyltriphenyl- $\alpha$ -naphthalenesulphonate;  $(\text{ClC}_6\text{H}_4\text{CH}_2)(\text{C}_6\text{H}_5)_3\text{PSO}_3\text{C}_{10}\text{H}_7$ .  
T as mothproofing agent. 871P, 1179.
- 258-851-924-1114.  
2-Naphthalenesulphonic acid, chloro-, barium salt, CU;  $(\text{ClC}_{10}\text{H}_7\text{SO}_3)_2\text{Ba}$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1114.  
Naphthalenedisulfonic acid, chloro-, barium salt, CU;  $\text{ClC}_{10}\text{H}_6(\text{SO}_3)_2\text{Ba}$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1168.  
2-Naphthalenesulphonate, chloro-, lithium salt, CU;  $\text{ClC}_{10}\text{H}_7\text{SO}_3\text{Li}$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1168.  
Naphthalenedisulphonic acid, chloro-, lithium salt, CU;  $\text{ClC}_{10}\text{H}_6(\text{SO}_3\text{Li})_2$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1196.  
2-Naphthalenesulphonate, chloro-, potassium salt, CU;  $\text{ClC}_{10}\text{H}_7\text{SO}_3\text{K}$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1196.  
Naphthalenedisulphonic acid, chloro-, potassium salt, CU;  $\text{ClC}_{10}\text{H}_6(\text{SO}_3\text{K})_2$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1218.  
2-Naphthalenesulphonate, chloro-, sodium salt, CU;  $\text{ClC}_{10}\text{H}_7\text{SO}_3\text{Na}$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-924-1218.  
Naphthalenedisulphonic acid, chloro-, sodium salts, CU;  $\text{ClC}_{10}\text{H}_6(\text{SO}_3\text{Na})_2$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-951.  
Benzenesulphonic acids, chloro-, CU;  $\text{ClC}_6\text{H}_4\text{SO}_3\text{H}$ .  
T as mothproofing agent. 982P, 1176.
- 258-851-951-1011-1021.  
p-Toluenesulfonic acid,  $\beta$ -chloroethyl ester;  $\text{CH}_2\text{C}_6\text{H}_4\text{SO}_3\text{CH}_2\text{CH}_2\text{Cl}$ .  
T Codling moth larvae. 915, 929, 930, 1432.
- 258-851-951-1021.  
p-Toluenesulfonic acid,  $\alpha$ -chloro-;  $\text{ClCH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Benzylchloride p-sulphonic acid).  
T as mothproofing agent. 413P, 1175.
- 258-851-951-1021.  
Toluenesulphonic acid,  $\alpha$ -chloro-, CU;  $\text{ClCH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$ . (Benzylchloride sulphonic acid).  
T as mothproofing agent. 1175, 1455P.
- 258-851-951-1021-1114.  
o-Toluenesulfonic acid, chloro-, barium salt, CU;  $[\text{ClC}_6\text{H}_4(\text{CH}_3)\text{SO}_3]_2\text{Ba}$ . (Barium salt of chloro-ortho-cresol sulfonic acid).  
NT *Pieris rapae*. 636.
- 258-851-951-1218.  
Benzenesulphonic acid, chloro-, sodium salt, CU;  $\text{ClC}_6\text{H}_4\text{SO}_3\text{Na}$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-851-952.  
Benzenesulfonic acid, 4-chloro-, phenyl ester;  $\text{ClC}_6\text{H}_4\text{SO}_3\text{C}_6\text{H}_5$ . (Phenyl ester of p-chlorobenzenesulfonic acid).  
NT as mothproofing agent. 239.
- 258-851-952-1021.  
p-Toluenesulfonic acid, 2'-chlorophenyl ester;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{C}_6\text{H}_4\text{Cl}$ . (o-Chlorophenyl ester of p'-toluenesulfonic acid; 2-chlorophenyl-4-toluenesulfonate).  
NT silkworm and as mothproofing agent. 239, 559, 1432.
- 258-851-952-1021.  
p-Toluenesulfonic acid, 4'-chlorophenyl ester;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{C}_6\text{H}_4\text{Cl}$ . (p-Chlorophenyl ester of p'-toluenesulfonic acid; 4-chlorophenyl-4-toluenesulfonate).  
NT silkworm and as mothproofing agent. 239, 559, 1432.
- 258-851-952-1022.  
p-Toluenesulfonic acid, 4-chloro-m-tolyl ester;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{C}_6\text{H}_3(\text{CH}_3)_2$ .

- $C_6H_4SO_3C_6H_5(CH_3)Cl$ .  
NT as mothproofing agent. 239.
- 258-852-951-1021.  
 $\alpha$ -Toluenesulphonic acid, 2, 4-dichloro-;  $Cl_2C_6H_3CH_3SO_3H$ . (2, 4-Dichloro-benzyl- $\alpha$ -sulphonic acid).  
T as mothproofing agent. 413P, 1175.
- 258-852-951-1021.  
 $\alpha$ -Toluenesulphonic acid, dichloro-, CU;  $Cl_2C_6H_3CH_3SO_3H$ . (Dichloro benzyl- $\alpha$ -sulphonic acid).  
T as mothproofing agent. 1175, 1393P.
- 258-852-952.  
Benzenesulfonic acid, 3, 4-dichloro-, phenyl ester;  $Cl_2C_6H_3SO_2C_6H_5$ . (Phenyl ester of 3, 4-dichlorobenzenesulfonic acid).  
NT as mothproofing agent. 239.
- 258-852-952-1021.  
 $p$ -Toluenesulfonic acid, 2', 4'-dichloro-, phenyl ester;  $CH_3C_6H_4SO_3C_6H_4Cl_2$ . (2, 4-Dichlorophenyl-4-para-toluene sulfonate).  
NT *Bombyx mori* larvae and as mothproofing agent. 239, 559, 1432.
- 258-854-952.  
Benzenesulfonic acid, 3, 4-dichloro-2', 4'-dichlorophenyl ester;  $Cl_2C_6H_3SO_2C_6H_3Cl_2$ .  
NT as mothproofing agent. 239.
- 258-861-924.  
1-Naphthalenesulphonic acid, 5-fluoro-;  $FC_{10}H_6SO_3H$ .  
T as mothproofing agent. 411P, 425P, 1175, 1399P.
- 258-924.  
2-Naphthalenesulphonic acid;  $C_{10}H_7SO_3H$ . (Naphthalene- $\beta$ -sulphonic acid).  
T as mothproofing agent; NT *Bombyx mori* larvae. 559, 982P, 983P, 1176, 1432.
- 258-924.  
Naphthalenesulphonic acid, CU;  $C_{10}H_7SO_3H$ .  
T as mothproofing agent. 425P, 983P, 1175, 1176, 1399P.
- 258-924-954-1021-1193.  
Phosphonium  $\alpha$ -naphthalenesulfonate, benzyltri-phenyl-;  $(C_6H_5CH_2)(C_6H_5)_3PSO_3C_{10}H_7$ .  
T as mothproofing agent. 867P, 871P, 1175, 1179.
- 258-924-1002.  
Naphthalenesulphonic acid, dibutyl-, CU;  $(C_4H_9)_2C_{10}H_6SO_3H$ .  
T as mothproofing agent. 509P, 1175.
- 258-924-1003-1218.  
Naphthalenesulphonic acid, isopropyl-, sodium salt, CU;  $C_6H_7C_{10}H_6SO_3Na$ .  
T as mothproofing agent. 460P, 1175, 1176, 1358P.
- 258-924-1004.  
Naphthalenesulphonic acid, diisopropyl-, CU. 838P, 1432.
- 258-924-1021-1114.  
Naphthalenesulphonic acid, methyl-, barium salt, CU;  $(CH_3C_{10}H_6SO_3)_2Ba$ . (Barium methylnaphthalene sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-924-1021-1218.  
Naphthalenesulphonic acid, methyl-, sodium salt, CU;  $CH_3C_{10}H_6SO_3Na$ . (Sodium methylnaphthalene sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-924-1027.  
Naphthalenesulphonic acid, alkyl-, CU;  $R_{C_{10}H_6SO_3H}$ . (Naphthalene mono-sulphonic acid, alkyl derivatives of).  
T aphids and as mothproofing agent. 372P, 509P, 1167P, 1175, 1176.
- 258-924-1027.  
Naphthalene poly-sulphonic acids, alkyl-, CU.  
T as mothproofing agent. 1167P, 1176.
- 258-924-1106.  
1-Naphthalenesulphonic acid, aluminum salt;  $(C_{10}H_7SO_3)_3Al$ .  
T as mothproofing agent. 1167P, 1176, 1417P.
- 258-924-1106.  
2-Naphthalenesulphonic acid, aluminum salt;  $(C_{10}H_7SO_3)_3Al$ .  
T as mothproofing agent. 1167P, 1176, 1417P.
- 258-924-1106.  
2-Naphthalenesulphonic acid, ammonium salt;  $C_{10}H_7SO_3NH_4$ . (Ammonium naphthalene  $\beta$ -sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-924-1142.  
Naphthalenesulfonic acid, copper salt, CU;  $(C_{10}H_7SO_3)_2Cu$ . (Copper naphthalene sulfonate).  
NT *Pieris rapae*. 635.
- 258-924-1186.  
Naphthalenesulfonic acid, lead salt, CU;  $(C_{10}H_7SO_3)_2Pb$ . (Lead naphthalene sulfonate).  
NT *Pieris rapae*. 635.
- 258-924-1218.  
Naphthalenesulfonic acid, sodium salt, CU;  $C_{10}H_7SO_3Na$ . (Sodium naphthalene sulfonate).  
ST *Pieris rapae*. 635.
- 258-924-1218.  
2-Naphthalenesulfonic acid, sodium salt;  $C_{10}H_7SO_3Na$ . (Sodium naphthalene  $\beta$  sulfonic acid).  
NT *Pieris rapae*. 635.
- 258-924-1244.  
1-Naphthalenesulphonic acid, zinc salt;  $(C_{10}H_7SO_3)_2Zn$ .  
T as mothproofing agent. 1176, 1416P, 1417P.
- 258-924-1244.  
2-Naphthalenesulphonic acid, zinc salt;  $(C_{10}H_7SO_3)_2Zn$ .  
T as mothproofing agent. 1176, 1416P, 1417P.
- 258-951.  
Benzenesulfonic acid;  $C_6H_5SO_3H$ .  
T as mothproofing agent; ST screwworms at m.l.e. 0.67%. 158, 331P, 982P, 1176, 1407.
- 258-951-1001-1021.  
 $p$ -Toluenesulphonic acid, butyl ester;  $CH_3C_6H_4SO_3C_4H_9$ . ( $n$ -Butyl  $p$ -toluenesulfonate).  
NT *Chrysomphalus aurantii*. 268, 1178.
- 258-951-1003-1021.  
 $p$ -Toluenesulphonic acid, propyl ester;  $CH_3C_6H_4SO_3C_3H_7$ .  
93.8% T codling moth larvae. 915, 1432.
- 258-951-1021.  
 $\alpha$ -Toluenesulphonic acid;  $C_6H_5CH_3SO_3H$ . (Benzyl- $\alpha$ -sulphonic acid).  
T as mothproofing agent. 413P, 1175.
- 258-951-1021-1196-1312.  
 $o$ -Toluenesulphonic acid, hydrofluoride, potassium salt;  $CH_3C_6H_4SO_3K.HF$ .  
T as mothproofing agent. 642P, 1175.
- 258-951-1021-1218.  
 $p$ -Toluenesulphonic acid, sodium salt;  $CH_3C_6H_4SO_3Na$ . (Sodium  $p$ -toluenesulfonate).  
T as mothproofing agent; NT codling moth. 461P, 915, 1176.
- 258-951-1021-1218-1312.  
 $o$ -Toluenesulphonic acid, hydrofluoride, sodium salt;  $CH_3C_6H_4SO_3Na.HF$ .  
T as mothproofing agent. 642P, 1175.
- 258-951-1218.  
Benzenesulphonic acid, sodium salt;  $C_6H_5SO_3Na$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-951-1218.  
Benzenedisulphonic acid, sodium salt; CU;  $C_6H_4(SO_3Na)_2$ .  
T as mothproofing agent. 982P, 983P, 1176.
- 258-952.  
Biphenylsulfonic acid, sodium salt, CU;  $C_6H_5C_6H_4SO_3Na$ . (Sodium diphenyl sulfonate).  
NT *Pieris rapae*. 635.
- 258-952-1021.  
 $p$ -Toluenesulphonic acid, phenyl ester;  $CH_3C_6H_4SO_3C_6H_5$ .  
NT as mothproofing agent. 239.
- 258-952-1022.  
 $p$ -Toluenesulphonic acid,  $o$ -tolyl ester;  $CH_3C_6H_4SO_3C_6H_4CH_3$ .  
NT as mothproofing agent. 239.
- 258-952-1218.  
Sulfonic acid derivatives, CU. 178, 662, 1086, 1432.
- 258-953-1021.  
Benzenesulfonic acid,  $o$ ,  $o'$ ,  $o''$ -methylidynetris-;  $CH(C_6H_4SO_3H)_3$ . (Methane,  $o$ -sulphotriphenyl-).  
T as mothproofing agent. 438P, 1179.
- 258-975.  
Sulfonic acids, aryl-, CU. 1897P, 1432.
- 258-975-1220.  
Sulfonic acids, strontium salts;  $(RSO_3)_2Sr$ . (Strontium sulfonates).  
T as mothproofing agent. 872P, 1179.



- 258-1027.  
Sulfonates, alkyl-. 32EP, 282P, 500P, 748P, 1432.
- 258-1027-1118.  
Sulfonic acids, substituted, arsenic salt, CU; As-(SO<sub>2</sub>YR'XR')<sub>2</sub>.  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S, or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-1027-1142.  
Sulfonic acids, substituted, copper salt, CU; Cu-(SO<sub>2</sub>YR'XR')<sub>2</sub>.  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S, or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-1027-1176.  
Sulfonic acids, substituted, mercury salt, CU; Hg-(SO<sub>2</sub>YR'XR')<sub>2</sub>.  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S, or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-1027-1227.  
Sulfonic acids, substituted, tellurium salt, CU; Te-(SO<sub>2</sub>YR'XR')<sub>2</sub>.  
In which R is a substituted or unsubstituted hydrocarbon radical, X is oxygen, S, or SO<sub>2</sub>, R' is an alkylene group, and Y is oxygen or may be absent. 282P, 1432.
- 258-1045.  
Sulfonic acids, CU.  
T as mothproofing agent. 77P, 331P, 372P, 460P, 470P, 867P, 1137P, 1175, 1176, 1358P.
- 258-1045-1218.  
Sulfonic acids, sodium salt, CU. 1432, 1446.
- 261-671-700-1021.  
Formamidine sulfonic acid? H<sub>2</sub>NC(:NH)SO<sub>2</sub>H.  
T Colorado potato beetle, Mexican bean beetle, and cotton leaf worm. 722P.
- 261-924.  
1, 5-Naphthalenedisulphinic acid; C<sub>10</sub>H<sub>6</sub>(SO<sub>2</sub>H)<sub>2</sub>.  
20% T culicine mosquito larvae. 172, 1178.
- 261-924.  
2, 6-Naphthalenedisulphinic acid; C<sub>10</sub>H<sub>6</sub>(SO<sub>2</sub>H)<sub>2</sub>.  
NT culicine mosquito larvae. 172, 1178.
- 261-951-1021-1218.  
p-Toluenesulfonic acid, sodium salt; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>Na.  
NT codling moth larvae. 915, 1432.
- 261-1045.  
Sulfonic acids, CU.  
T as mothproofing agent. 867P, 1175.
- 264-301-950.  
Phenoxathiin, 10-dioxo-; (C<sub>12</sub>H<sub>8</sub>OS)<sub>2</sub>O<sub>2</sub>. (Phenthioxine dioxide).  
ST greenhouse red spider at 2%; NT southern army worm at 4%. 1481.
- 264-440-950-1021.  
Phenothiazine, N-methyl-5-dioxo-; CH<sub>3</sub>(C<sub>12</sub>H<sub>8</sub>NS)<sub>2</sub>O<sub>2</sub>. (N-Methyl diphenylamine sulfone).  
NT Mexican bean beetle 606.
- 264-591-952-1011.  
Phenetole, p-phenylsulfonfyl-; C<sub>6</sub>H<sub>5</sub>SO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>5</sub>.  
MT as mothproofing agent. 239.
- 264-592-852-954-1022.  
Sulfone, bis(2-benzyloxy-5-chlorophenyl)-; [C<sub>6</sub>H<sub>4</sub>-CH<sub>2</sub>OC<sub>2</sub>H<sub>5</sub>(Cl)]<sub>2</sub>SO<sub>2</sub>. (Sulfone, bis(5-chloro-2-phenylmethoxyphenyl)-).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 264-592-954-1022.  
Sulfone, bis(p-benzyloxyphenyl)-; (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>SO<sub>2</sub>. (Sulfone, bis(4-phenylmethoxy phenyl)-).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 264-681-952-1012-1022.  
Diethylamine, 2, 2'-bis-(p-tolylsulfonfyl)-; (CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NH. (Bis[β-(p-tolylsulfonfyl)ethyl]amine. 772.
- 264-852-952.  
Sulfone, bis(p-chlorophenyl)-; (ClC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>SO<sub>2</sub>. (p, p'-Dichlorophenyl sulfone).  
68.6% T corn borer. 1120.
- 264-863-951-1021.  
Sulfone, phenyltrifluoromethyl, CU; RSO<sub>2</sub>CF<sub>3</sub>.  
R is a substituted or unsubstituted C<sub>6</sub>H<sub>5</sub> radical. 342P.
- 264-952.  
Sulfone, diphenyl-; (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>SO<sub>2</sub>. (Phenyl sulfone; phenylsulfonfylbenzene; benzene sulfone; sulfolbenzene).  
100% T culicine mosquito larvae; NT as mothproofing agent. 172, 239, 1178.
- 264-952-1022.  
Sulfone, bis-(p-tolyl)-; (CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>)<sub>2</sub>SO<sub>2</sub>. (p-Tolyl sulfone).  
NT as mothproofing agent. 239.
- 264-991-1001.  
Sulfone, butyldecyl-; C<sub>4</sub>H<sub>9</sub>SO<sub>2</sub>C<sub>10</sub>H<sub>21</sub>.  
T houseflies. 1276.
- 264-1001-1012.  
Trional; C<sub>6</sub>H<sub>5</sub>(CH<sub>2</sub>)C(SO<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>. (2, 2-Bis(ethylsulfonfyl)butane).  
NT culicine mosquito larvae. 172, 1178.
- 264-1002.  
Sulfone, dibutyl-; (C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>SO<sub>2</sub>. (n-Butyl sulfone; 1-(butylsulfonfyl)butane; di-n-butyl sulfone).  
NT as mothproofing agent. 239.
- 264-1003-1012.  
Sulphonal; (CH<sub>3</sub>)<sub>2</sub>C(SO<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>. ([2, 2-Bis(ethylsulfonfyl) propane]).  
NT culicine mosquito larvae at 1-10,000. 172, 1178.
- 265-301-950.  
Phenoxathiin, 10-oxo-; (C<sub>12</sub>H<sub>8</sub>OS):O. (Phenothioxin-S-oxide).  
ST greenhouse red spider; NT mosquito larvae and NT southern army worm at 4%. 487.
- 265-402-1012-1022.  
Sulfoxide, bis(2-thiocyanatoethyl)-; (NCSCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>S:O. (Bis(β-thiocyanatoethyl) sulfoxide).  
Fly spray. 112, 1032P.
- 265-440-950.  
Phenothiazine, 5-oxo-; (C<sub>12</sub>H<sub>8</sub>NS):O. (Phenothiazine-S-oxide).  
NT mosquito larvae. 156, 487, 1291.
- 265-592-954-1022.  
Sulfoxide, bis(p-benzyloxyphenyl)-; (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>S:O.  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 265-852-1012.  
Sulphoxide, bis(chloroethyl)-; (ClC<sub>2</sub>H<sub>4</sub>)<sub>2</sub>S:O.  
Caused serious burning when used as dust on bean foliage. 1008, 1178.
- 265-952.  
Sulfoxide, diphenyl-; (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>S:O.  
88% T *Culex quinquefasciatus*; MT codling moth larvae. 187, 172, 1178, 1291.
- 267-377-951-997-1021.  
Pseudourea, 2-caproyl 3-phenyl 2-thio-? C<sub>6</sub>H<sub>11</sub>COSC(:NH)NH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>.  
T as mothproofing agent. 416P, 424P, 437P, 683P, 1175, 1179.
- 267-460-625-950-1021.  
Bensothiasole, 2-(2-furoylmercapto)-; (C<sub>7</sub>H<sub>4</sub>NS)-SCO(C<sub>4</sub>H<sub>3</sub>O).  
44% T mosquito larvae. 487.
- 267-460-950-951-1021.  
Benzoic acid, thiol-, 2-benzothiasolyl ester; (C<sub>7</sub>H<sub>4</sub>NS)SCOC<sub>2</sub>H<sub>5</sub>. (2-(1?)-(Benzoylmercapto) bensothiasole).  
70% T codling moth larvae and MT mosquito larvae. 487, 1291.
- 267-460-950-951-1022.  
Phthalic acid, dithiol-, di-2-benzothiasolyl ester; [(C<sub>7</sub>H<sub>4</sub>NS)SCO]<sub>2</sub>C<sub>6</sub>H<sub>4</sub>. (Bis-(1-benzothiasolyl)phthalyl disulfide).  
79% T codling moth larvae. 1291.
- 267-582-952-1022.  
Disulfide, bis(hydroxybenzoyl)-; (HOC<sub>6</sub>H<sub>4</sub>COS-)<sub>2</sub>. (Benzoic acid disulphide, bis-hydroxy).  
T as mothproofing agent. 459P, 1176.
- 267-552-952-1024.  
Disulfide, bis(o-carboxybenzoyl)-; (HOCC<sub>6</sub>H<sub>4</sub>COS-)<sub>2</sub>. 38P.
- 267-999-1011.  
Acetic acid, thiol-, amyl ester; CH<sub>3</sub>COSC<sub>5</sub>H<sub>11</sub>. (Amyl thiolaetate).  
84-98% T *Lucilia sericata* larvae. 723.
- 267-1001-1011.  
Acetic acid, thiol-, butyl ester; CH<sub>3</sub>COSC<sub>4</sub>H<sub>9</sub>. (n-

- Butyl thiolaetate).
- 84-100% T *Lucilia sericata* larvae. 723.
- 267-1001-1011.
- Acetic acid, thiol-, *tert*-butyl ester;  $\text{CH}_3\text{COSC}(\text{CH}_3)_3$ . (Tertiary butyl acetyl sulfide).  
T *Lucilia sericata*. 12P, 1276.
- 267-1001-1011-1030.
- Acetic acid, thiol-, 3-(2-methylpropenyl) ester;  $\text{CH}_3\text{COSC}(\text{CH}_3)_2\text{CH}=\text{CH}_2$ . (Methallyl acetyl sulfide).  
T *Lucilia sericata*. 12P, 1276.
- 267-1011.
- Acetic acid, thiol-;  $\text{CH}_3\text{COSH}$ . (Ethanethiolic acid; methanecarbothiolic acid).  
100% T rice weevil; NT *Chrysomphalus aurantii*. 268, 1178, 1180.
- 267-1012.
- Acetic acid, thiol-, ethyl ester;  $\text{CH}_3\text{COSC}_2\text{H}_5$ . (Ethyl thiolaetate; ethyl sulfide).  
T *Lucilia sericata*; MT confused flour beetle and granary weevil; ST red scale. 12P, 268, 1178, 1276, 1279, 1432.
- 267-1013.
- Oxalic acid, dithiol-, diethyl ester;  $(-\text{COSC}_2\text{H}_5)_2$ . (Diethyldithio oxalate).  
NT *Bombyx mori* larvae. 559, 1432.
- 301-801-852-950-1023-1389.
- Phenoxathiin methyl sulfate, 1, 3-dichloro-6, 10-dimethyl-;  $\text{Cl}_2(\text{C}_6\text{H}_4\text{OS})(\text{CH}_3)_2\text{CH}_2\text{SO}_4$ . (1, 3-Dichloro-6-methyl-8-methyl-o-phenylene oxide-sulfonium methoxysulfate). 526P.
- 301-801-950-951-1291.
- Phenoxathiin chloride, 10-phenyl-;  $\text{Cl}(\text{C}_6\text{H}_4\text{OS})-\text{C}_6\text{H}_5$ . (S-Phenyl-di-o-phenylene oxide sulfonium chloride). 526P.
- 301-801-950-1000-1022-1389.
- Phenoxathiin methyl sulfate, 3, 5-diamyl-10-methyl-;  $(\text{C}_5\text{H}_{11})_2(\text{C}_6\text{H}_4\text{OS})(\text{CH}_3)\text{CH}_2\text{SO}_4$ . (3, 5-Diamyl-8-methyl-o-phenylene oxide sulfonium methoxysulfate). 526P.
- 301-801-950-1024-1389.
- Phenoxathiin methyl sulfate, 3, 6, 10-trimethyl-;  $(\text{CH}_3)_3(\text{C}_6\text{H}_4\text{OS})\text{CH}_2\text{SO}_4$ . (3, 6-Dimethyl-8-methyl-o-phenylene oxide-sulfonium methoxysulfate). 526P.
- 301-851-950-952.
- Phenoxathiin, chloro-3, 6-diphenyl-, CU;  $\text{Cl}(\text{C}_6\text{H}_4\text{OS})(\text{C}_6\text{H}_5)_2$ . (3, 6-Diphenyl-monochlorophenothioxine).  
Fly spray. 112, 1307P.
- 301-851-950-961.
- Phenoxathiin, 3-chloro-cyclohexyl-;  $\text{Cl}(\text{C}_6\text{H}_9\text{OS})\text{C}_6\text{H}_{11}$ . (Monocyclohexyl-3-chlorophenothioxine). 1306AP.
- 301-924.
- Dibenzo [c, d] phenoxathiin;  $\text{C}_{20}\text{H}_{12}\text{OS}$ . ( $\gamma, \gamma'$ -Dibenzophenothioxin).  
MT mosquito and codling moth larvae. 487, 1291.
- 301-950.
- Phenoxathiin;  $\text{C}_{12}\text{H}_8\text{OS}$ . (Phenothioxin).  
HT greenhouse red spider at 1%; T cabbage aphid, termites, American cockroach, codling moth larvae, Hawaiian beet webworm, southern beet webworm, mosquito larvae, diamondback moth, screwworm, housefly, and rice weevil; NT southern army worm. 487, 723, 949, 1120, 1144, 1276, 1291, 1312, 1320P, 1327, 1432, 1481.
- 301-950-951.
- Phenoxathiin, 1-phenyl-;  $(\text{C}_6\text{H}_5\text{OS})\text{C}_6\text{H}_5$ .  
Fly spray. 112, 1307P.
- 301-950-951-961.
- Phenoxathiin, cyclohexyl-1-phenyl-;  $\text{C}_6\text{H}_{11}(\text{C}_6\text{H}_5\text{OS})\text{C}_6\text{H}_5$ . (Monocyclohexyl-1-phenyl-phenothioxine). 1306AP.
- 301-950-951-1027.
- Phenoxathiin, substituted, phenyl.  
Fly spray. 112, 1307P.
- 301-950-952.
- Phenoxathiin, 3, 6-diphenyl-;  $(\text{C}_6\text{H}_5\text{OS})(\text{C}_6\text{H}_5)_2$ . (3, 6-Diphenyl phenothioxine).  
Fly spray. 112, 1307P.
- 301-950-961.
- Phenoxathiin, cyclohexyl-;  $(\text{C}_6\text{H}_9\text{OS})\text{C}_6\text{H}_{11}$ . (Monocyclohexyl-phenothioxine). 1306AP.
- 301-950-978.
- Phenoxathiin, cycloalkyl-. (Cyclo-alkylated phenothioxine). 1306AP.
- 301-950-993.
- Phenoxathiin, 2-(2-methylheptyl)-;  $(\text{C}_{12}\text{H}_{25}\text{OS})\text{C}_6\text{H}_5$ . (Phenoxathiin, 3-*tert*-octyl-; 3-tertiary-octyl phenothioxine).  
Fly spray. 112, 1307P.
- 301-950-1001.
- Phenoxathiin, butyl-;  $(\text{C}_4\text{H}_9\text{OS})\text{C}_6\text{H}_5$ . (Monobutyl phenothioxine).  
20% T houseflies at 3%. 112, 1307P.
- 301-950-1004.
- Phenoxathiin, dipropyl-;  $(\text{C}_3\text{H}_7\text{OS})(\text{C}_6\text{H}_5)_2$ . (Dipropyl phenothioxine).  
MT as fly spray. 112, 1307P.
- 301-950-1012.
- Phenoxathiin, diethyl-;  $(\text{C}_2\text{H}_5\text{OS})(\text{C}_6\text{H}_5)_2$ . (Diethyl phenothioxine).  
MT as fly spray. 112, 1307P.
- 301-950-1037.
- Phenoxathiin, alkyl-.  
Fly spray. 112, 1307P.
- 328-851-1003-1021.
- Formic acid, chloro-, 2-chloropropyl ester  $\text{CH}_3\text{CHCl}-\text{CH}_2\text{OOCCH}_3$ . (Chloroformate; chlorocarbonate; chloropropyl).  
T *Sitophilus oryza*. 268, 1181.
- 328-851-1003-1021.
- Formic acid, chloro-, 3-chloropropyl ester;  $\text{ClCOO}-\text{CH}_2\text{CH}_2\text{CH}_2\text{Cl}$ . ( $\gamma$ -Chloropropyl chloroformate).  
10% T *Sitophilus oryza*. 1180.
- 328-851-1011-1021.
- Formic acid, chloro-, 2-chloroethyl ester;  $\text{ClCOO}-\text{CH}_2\text{CH}_2\text{Cl}$ . ( $\beta$ -Chloroethyl chloroformate).  
100% T *Sitophilus oryza*. 1180, 1181.
- 328-999-1021.
- Formic acid, chloro-, isomyl ester;  $\text{ClCOOCH}_2\text{CH}_2-\text{CH}(\text{CH}_3)_2$ . (Isomyl chloroformate; isomyl ester chloroformic acid;  $\gamma$ -methylbutyl chloromethanoate; isomyl chlorocarbonate).  
ST codling moth; NT *Sitophilus oryza* and red scale. 268, 346P, 915, 1180.
- 328-1001-1021.
- Formic acid, chloro-, butyl ester;  $\text{C}_4\text{H}_9\text{OOCCH}_3$ . (n-Butyl chloroformate).  
T *Sitophilus oryza*; ST codling moth. 915, 1180, 1181.
- 328-1001-1021.
- Formic acid, chloro-, isobutyl ester;  $\text{ClCOOCH}_2\text{CH}(\text{CH}_3)_2$ . (Isobutyl chloroformate).  
ST *Sitophilus oryza*. 1180, 1181.
- 328-1003-1021.
- Formic acid, chloro-, propyl ester;  $\text{C}_3\text{H}_7\text{OOCCH}_3$ . (n-Propyl chlorocarbonate; chloroformate).  
T *Chrysomphalus aurantii* and *Sitophilus oryza*. 268, 346P, 1180.
- 328-1003-1021.
- Formic acid, chloro-, isopropyl ester;  $\text{ClCOOCH}(\text{CH}_3)_2$ . (Isopropyl chloroformate; chlorocarbonate).  
MT *Sitophilus oryza*. 268, 346P, 1180.
- 328-1011-1021.
- Formic acid, chloro-, ethyl ester;  $\text{C}_2\text{H}_5\text{OOCCH}_3$ . (Ethyl chlorocarbonate; chloroformate).  
T *Sitophilus oryza*. 268, 1180, 1181.
- 328-1021-1027.
- Formic acid, chloro-, alkyl esters;  $\text{ClCOOR}$ . 1181.
- 328-1022.
- Formic acid, chloro-, methyl ester;  $\text{ClCOOCH}_3$ . (Methyl chlorocarbonate; chloroformate).  
T *Sitophilus oryza*; ST *Chrysomphalus aurantii*. 268, 1181.
- 330-440-950-1021.
- 6-Phenothiasinecarbonyl chloride;  $(\text{C}_{12}\text{H}_8\text{NS})\text{COCl}$ . (Phenothiasine-6-carboxylic-acid chloride).  
NT mosquito larvae. 487.
- 330-841-1011.
- Acetyl bromide, bromo-;  $\text{CH}_3\text{BrCOBr}$ . (Bromoethanoyl bromide).  
NT rice weevil. 1180.
- 330-951-1021.
- Benzoyl bromide;  $\text{C}_6\text{H}_5\text{COBr}$ . (Benzene-carbonyl bromide).  
NT red scale. 268.
- 330-1011.
- Acetyl bromide;  $\text{CH}_3\text{COBr}$ . (Ethanoyl bromide).  
NT red scale. 268.



- 331-851-1011.  
Acetyl chloride, chloro-;  $\text{ClCH}_2\text{COCl}$ .  
ST rice weevil. 1180.
- 331-852-1011.  
Acetyl chloride, dichloro-;  $\text{Cl}_2\text{CHCOCl}$ .  
ST rice weevil. 1180.
- 331-853-1011.  
Acetyl chloride, trichloro-;  $\text{Cl}_3\text{CCOCl}$ .  
ST rice weevil. 1180.
- 331-951-1021.  
Benzoyl chloride;  $\text{C}_6\text{H}_5\text{COCl}$ .  
T *Lucilia cuprina* larvae and houseflies. 849, 1002.
- 331-951-1022.  
Phthaloyl chloride;  $\text{C}_6\text{H}_4(\text{OOC})_2$ . (Phthalyl chloride; 1, 2-benzenedicarbonyl chloride; o-phthalyl dichloride). 890P.
- 331-997.  
Adipyl chloride;  $\text{ClOC}(\text{CH}_2)_4\text{COCl}$ . (Hexanedioyl chloride).  
NT red scale. 268.
- 331-999.  
Valeryl chloride;  $\text{C}_5\text{H}_9\text{COCl}$ . (n-Valeryl chloride; pentanoyl chloride).  
NT rice weevil. 1180.
- 331-999.  
Isovaleryl chloride;  $(\text{CH}_3)_2\text{CHCH}_2\text{COCl}$ . (3-Methylbutanoyl chloride).  
NT rice weevil. 1180.
- 331-1001-.  
Butyryl chloride;  $\text{C}_4\text{H}_7\text{OCl}$ . (n-Butyryl chloride; butanoyl chloride).  
ST rice weevil; NT red scale. 268, 1180.
- 331-1001-1030.  
Crotyl chloride, cis-;  $\text{CH}_3\text{CH}=\text{CHCOCl}$ . (Isocrotyl chloride). 1513P.
- 331-1003.  
Propionyl chloride;  $\text{C}_3\text{H}_7\text{COCl}$ .  
ST rice weevil. 268, 1180.
- 331-1011.  
Acetyl chloride;  $\text{CH}_3\text{COCl}$ . (Ethanoyl chloride).  
T *Lucilia cuprina* larvae; NT red scale. 268, 849.
- 331-1011.  
Oxalyl chloride;  $(\text{COCl})_2$ . (Ethanedioyl chloride).  
30% T rice weevil. 268, 1180.
- 331-1021.  
Phosgene;  $\text{OOCla}$ . (Carbonyl chloride). 1041, 1295.
- 340-951.  
Benzene, iodoso-;  $\text{C}_6\text{H}_5\text{IO}$ .  
85% T *Culex quinquefasciatus*, 84% T corn borer, T screwworms, and many insects. 110, 157, 1120, 1123, 1312, 1315P.
- 341-541-951-1021.  
Benzoic acid, iodoxy-;  $\text{O}_2\text{IC}_6\text{H}_4\text{COOH}$ .  
NT *Bombyx mori* larvae. 110, 561, 1339.
- 341-951.  
Benzene, iodoxy-;  $\text{C}_6\text{H}_5\text{IO}$ .  
T tobacco hornworm, southern army worm, cross-striped cabbage worm, and imported cabbage worm; MT Hawaiian beet webworm and southern beet webworm. 110, 1312, 1324P.
- 360-730-1022.  
Formic acid,  $\alpha,\alpha'$ -dithiobis[1-piperidylthio-?  $\text{C}_5\text{H}_{10}\text{NC}(\text{S})\text{SSC}(\text{S})\text{NC}_5\text{H}_{10}$ . (Piperidine thiuram disulfide).  
NT Japanese beetle. 606, 1432.
- 360-952-1024.  
Formamide,  $\alpha,\alpha'$ -dithiobis[N,N-methylphenylthio-;  $\text{C}_6\text{H}_4(\text{CH}_3)\text{NC}(\text{S})\text{SSC}(\text{S})\text{N}(\text{CH}_3)\text{C}_6\text{H}_4$ . (Thiuram disulfide, sym-dimethyldiphenyl-).  
NT Mexican bean beetle. 606, 1432.
- 360-954-1025.  
Formamide,  $\alpha,\alpha'$ -dithiobis[N,N-dibenzylthio-;  $[(\text{C}_6\text{H}_5\text{CH}_2)_2\text{NC}(\text{S})\text{S}]_2$ . (Tetra benzyl thiuram disulfide).  
NT Japanese beetle. 606.
- 360-964-1022.  
Formamide,  $\alpha,\alpha'$ -dithiobis[dicyclohexylthio-;  $[(\text{C}_6\text{H}_{11})_2\text{NC}(\text{S})\text{S}]_2$ . (Thiuram disulfide, tetracyclohexyl-).  
25% T Mexican bean beetle. 606, 1432.
- 360-964-1023.  
Formamide,  $\alpha,\alpha'$ -dithiobis[N,N-di-2-ethylhexylthio-;  $[(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2)_2\text{NC}(\text{S})\text{S}]_2$ . (Thiuram disulfide, tetra-(2-ethyl hexyl)-).  
NT Mexican bean beetle. 606, 1432.
- 360-1002-1022.  
Formamide,  $\alpha,\alpha'$ -dithiobis[N,N-disubutylthio-;  $[(\text{CH}_3)_2\text{CHCH}_2)_2\text{NC}(\text{S})\text{S}]_2$ . (Thiuram disulfide, tetrabutyl-).  
NT Mexican bean beetle. 606, 1432.
- 360-1024.  
Formamide,  $\alpha,\alpha'$ -dithiobis[N-methylthio-;  $\text{CH}_3\text{HNC}(\text{S})\text{SSC}(\text{S})\text{NHCH}_3$ ? (Thiuram disulfide, dimethyl-).  
80% T Colorado potato beetle; NT Mexican bean beetle and Japanese beetle. 606, 1432.
- 360-1025.  
Formamide,  $\alpha,\alpha'$ -dithiobis[N,N-dimethylthio-;  $[(\text{CH}_3)_2\text{NC}(\text{S})\text{S}]_2$ . (Tetramethylthiuram disulfide; bis(dimethylthiocarbonyl) disulfide).  
HT Japanese beetle; 53-84% T *Lucilia sericata* larvae, MT Mexican bean beetle, and Colorado potato beetle; NT *Bombyx mori*. 304P, 559, 561, 606, 607, 723, 1178, 1404P, 1405P, 1406P, 1432, 1511.
- 365-968-1022.  
1-Piperidinecarbodithioic acid, anhydride-;  $(\text{C}_5\text{H}_9\text{NO}(\text{S})\text{S})_2$ . (Thiuram sulphide, sym-dipentamethylene-; sulfide, bis(thio-1-piperidylcarbonyl)-).  
80% T aphids infesting potato plants. 1178, 1405P.
- 365-1002-1022.  
Formamide,  $\alpha,\alpha'$ -thiobis[N,N-dibutylthio-;  $(\text{C}_4\text{H}_9)_2\text{NC}(\text{S})\text{SC}(\text{S})\text{N}(\text{C}_4\text{H}_9)_2$ . (Thiuram sulfide, tetrabutyl-).  
NT Mexican bean beetle and Colorado potato beetle. 606, 1432.
- 365-1014-1022.  
Formamide,  $\alpha,\alpha'$ -thiobis[N,N-diethylthio-;  $(\text{C}_2\text{H}_5)_2\text{NC}(\text{S})\text{SC}(\text{S})\text{N}(\text{C}_2\text{H}_5)_2$ . (Thiuram sulfide, tetraethyl-).  
100% T Mexican bean beetle and Colorado potato beetle; NT Japanese beetle. 606, 1432.
- 365-1025.  
Formamide,  $\alpha,\alpha'$ -thiobis[N,N-dimethylthio-;  $(\text{CH}_3)_2\text{NC}(\text{S})\text{SC}(\text{S})\text{N}(\text{CH}_3)_2$ . (Tetramethyl thiuram monosulfide).  
10% T Mexican bean beetle. 606, 611, 1432.
- 365-1045.  
Formamide,  $\alpha,\alpha'$ -thiobis[N,N-disubstituted thio-;  $\text{R}_2\text{NC}(\text{S})\text{SC}(\text{S})\text{NR}_2$ . (Thiuram sulfides).  
T aphid, *Popillia japonica*, and *Eplachna varivestis*. 304P, 305P, 607, 1178, 1403, 1432.
- 370-581-1011-1021-1218.  
Carbamic acid, 2-hydroxyethylthio-, sodium salt;  $\text{HOCH}_2\text{CH}_2\text{NHC}(\text{S})\text{SNa}$ . (Carbamic acid,  $\beta$ -hydroxyethylthio-, sodium salt).  
90% T aphids. 1178, 1405P.
- 370-668-730-952-1022.  
1-Piperidinecarbodithioic acid, diphenylguanidine salt;  $\text{C}_6\text{H}_{10}\text{NCSSHC}_6\text{H}_4\text{N}:\text{C}(\text{NHC}_6\text{H}_5)_2$ . (Carbamic acid, pentamethylenedithio-, sym-diphenylguanidinium salt).  
10% Mexican bean beetle; NT Japanese beetle. 606, 1432.
- 370-668-952-1024.  
Carbamic acid, dimethyldithio-, diphenylguanidine salt;  $(\text{CH}_3)_2\text{NC}(\text{S})\text{SHN}:\text{C}(\text{NHC}_6\text{H}_5)_2$ ? (Carbamic acid, dimethyldithio-, sym-diphenylguanidinium salt).  
T Mexican bean beetle; ST Japanese beetle. 606, 1432.
- 370-730-1021.  
1-Piperidinecarbodithioic acid, piperidine salt;  $\text{C}_5\text{H}_{10}\text{NCSSHC}_5\text{H}_{10}$ . (Carbamic acid, pentamethylenedithio-, piperidinium salt; piperidinepiperidyl dithiocarbamate).  
NT Mexican bean beetle. 157, 239, 606, 1120, 1432.
- 370-730-1021-1196.  
1-Piperidinecarbodithioic acid, potassium salt;  $\text{C}_5\text{H}_{10}\text{NCSSK}$ . (Carbamic acid, pentamethylenedithio-, potassium salt).  
90% T aphids. 1178, 1405P.
- 370-950-1011-1021-1142.  
Carbamic acid, phenethylthio-, cupric salt;  $[\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{NHC}(\text{S})\text{S}]_2\text{Cu}$ . (Cupric phenethyl dithiocarbamate).  
NT Japanese beetle and Mexican bean beetle. 606, 1432.
- 370-951-1022-1218.  
Carbamic acid, methylphenylthio-, sodium salt;  $\text{C}_6\text{H}_5(\text{CH}_3)\text{NC}(\text{S})\text{SNa}$ .  
90% T aphids. 1178, 1405P.
- 370-952-1022-1114.  
Carbanilic acid, dithio-, barium salt;  $\text{Ba}[\text{SC}(\text{S})-$

- NHC<sub>6</sub>H<sub>5</sub>)<sub>2</sub>s. (Barium dithiocarbamate).  
NT codling moth at 4%. 1481.
- 370-999-1012-1021.  
Carbamic acid, diethyldithio-, dodecyl ester; (C<sub>12</sub>H<sub>25</sub>)<sub>2</sub>NC(:S)SC<sub>12</sub>H<sub>25</sub>s. (Lauryl diethyldithiocarbamate). 593P.
- 370-999-1021.  
Carbamic acid, didodecyldithio-; (C<sub>12</sub>H<sub>25</sub>)<sub>2</sub>NC(:S)-SH. (Carbamic acid, di-n-dodecyldithio-).  
Fly spray. 107P, 112, 593P.
- 370-999-1021.  
Carbamic acid, dodecyldithio-, dodecyl ester; C<sub>12</sub>H<sub>25</sub>NHC(:S)SC<sub>12</sub>H<sub>25</sub>s. 593P, 1432.
- 370-1001-1021-1218.  
Carbamic acid, butyldithio-, sodium salt; C<sub>4</sub>H<sub>9</sub>NHC(:S)SNa.  
T aphids. 1178, 1405P, 1406P.
- 370-1002-1021-1218.  
Carbamic acid, dibutyldithio-, sodium salt; (C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>NC(:S)SNa.  
90% T aphids. 1178, 1405P.
- 370-1003-1028-1030.  
Carbamic acid, dimethyldithio-, allyl ester; (CH<sub>3</sub>)<sub>2</sub>NC(:S)SCH<sub>2</sub>CH=CH<sub>2</sub>s.  
T aphids. 1178, 1405P, 1406P.
- 370-1012-1021-1124.  
Carbamic acid, diethyldithio-, cadmium salt; [(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NC(:S)S]<sub>2</sub>Cd. (Cadmium diethyl dithiocarbamate).  
60% T Colorado potato beetle. 606, 1432.
- 370-1012-1021-1218.  
Carbamic acid, diethyldithio-, sodium salt; (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NC(:S)SNa. (Sodium diethyl dithiocarbamate).  
78-93% T *Lucilia sericata* larvae and T aphids;  
NT Colorado potato beetle. 606, 723, 1178, 1405P.
- 370-1013-1021-1167.  
Carbamic acid, dithio-, triethyl lead salt; H<sub>3</sub>NC(:S)SPb(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>s. (Triethyl lead dithiocarbamate).  
T many species of insects. 161P.
- 370-1014-1021-1109.  
Carbamic acid, diethyldithio-, diethylammonium salt; (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NC(:S)BNH<sub>2</sub>(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>s. (Diethyl ammonium diethyl dithiocarbamate).  
NT *Bombyx mori* larvae. 559, 1432.
- 370-1021.  
Carbamic acid, dithio-; H<sub>2</sub>NC(:S)SH. (Aminodithioformic acid; aminomethane thionothioic acid).  
T *aphis rumicis* and several other species of aphids, *Popillia japonica*, *Epilachna varivestis*, and mites. 1403.
- 370-1021-1027.  
Carbamic acid, dithio-, esters. (Including at least two alkyl radicals at least one of which is a straight chain radical of at least eight carbon atoms). 104P.
- 370-1021-1142.  
Carbamic acid, dithio-, cupric salt; [H<sub>2</sub>NC(:S)S]<sub>2</sub>Cu. (Cupric dithiocarbamate).  
NT Colorado potato beetle and Japanese beetle. 606, 1432.
- 370-1021-1244.  
Carbamic acid, dithio-, zinc salt; [H<sub>2</sub>NC(:S)S]<sub>2</sub>Zn. (Zinc dithiocarbamate).  
ST Japanese beetle. 606, 1432.
- 370-1023-1142.  
Carbamic acid, dimethyldithio-, cupric salt; [(CH<sub>3</sub>)<sub>2</sub>NC(:S)S]<sub>2</sub>Cu. (Cupric dimethyl dithiocarbamate).  
20% T Colorado potato beetle; NT Mexican bean beetle and Japanese beetle. 606, 1432.
- 370-1023-1162.  
Carbamic acid, dimethyldithio-, ferric salt; [(CH<sub>3</sub>)<sub>2</sub>NC(:S)S]<sub>2</sub>Fe. (Ferric dimethyl dithiocarbamate).  
30% T Mexican bean beetle and T Japanese beetle. 606, 1432.
- 370-1023-1218.  
Carbamic acid, dimethyldithio-, sodium salt; (CH<sub>3</sub>)<sub>2</sub>NC(:S)SNa.  
T potato aphids. 1178, 1405P.
- 370-1025.  
Carbamic acid, dimethyldithio-, methyl ester; (CH<sub>3</sub>)<sub>2</sub>NC(:S)SCH<sub>3</sub>s. (Methyl dimethyldithiocarbamate). 891P.
- 370-1025-1109.  
Carbamic acid, dimethyldithio-, dimethylammonium salt; (CH<sub>3</sub>)<sub>2</sub>NC(:S)BNH<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub>s. (Dimethyl ammonium dimethyl dithiocarbamate).
- NT *Bombyx mori* larvae. 559, 561, 1432.
- 370-1027.  
Xanthogen, bisalkyl-. (Bisalkyl salts of thiolthiocarbonic acids). 1212P.
- 370-1045-1246.  
Carbamic acid, dialkyldithio-, metal salts; R<sub>2</sub>NC(:S)S Metal. (Dithiocarbamates).  
T mites, *Aphis rumicis*, *Popillia japonica*, and *Epilachna varivestis*. 1178, 1403, 1405P, 1406P.
- 374-952-1021.  
Carbohydrazide, 1, 1-diphenyl-3-thio-; (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>NNHC(:S)NHNH<sub>2</sub>. (α,α-Diphenylthiocarbohydrazide).  
70% T mosquito larvae. 487.
- 374-952-1021.  
Carbohydrazide, 1, 5-diphenyl-3-thio-; C<sub>6</sub>H<sub>5</sub>NH-NHC(:S)NHNHC<sub>6</sub>H<sub>5</sub>. (Diphenylthiocarbaside).  
ST screwworms; NT *Bombyx mori* larvae. 556, 559, 1433.
- 375-924-951-1021.  
Semicarbaside, 4-(1-naphthyl)-1-phenyl-3-thio-; C<sub>6</sub>H<sub>5</sub>NHNHC(:S)NHC<sub>10</sub>H<sub>7</sub>. (4-(1-Naphthyl)-1-phenylthiosemicarbaside).  
NT European corn borer 4 lb./100 gal. 1122.
- 375-924-951-1022.  
Semicarbaside, 4-(1-naphthyl)-1-p-tolyl-3-thio-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>NHNHC(:S)NHC<sub>10</sub>H<sub>7</sub>. (4-(1-Naphthyl)-1-p-tolylthiosemicarbaside).  
NT European corn borer 4 lb./100 gal. 1122.
- 375-951-1022.  
Semicarbaside, 3-thio-1-o-tolyl-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>NHNHC(:S)NH<sub>2</sub>.  
NT silkworm. 559, 1432.
- 375-1021.  
Semicarbaside, 3-thio-; H<sub>2</sub>NC(:S)NHNH<sub>2</sub>. (Semicarbaside, thio-).  
98% T culicine mosquito larvae. 172, 1178.
- 376-541-951-1011-1021.  
Hydantol acid, Δ-phenyl-γ-thio-; C<sub>6</sub>H<sub>5</sub>NHC(:S)-NHCH<sub>2</sub>COOH. (Hydantol acid, phenylthio-).  
40% T silkworm. 559, 1432.
- 376-551-951-1021.  
Urea, 1-(p-hydroxyphenyl)-2-thio-; NH<sub>2</sub>C(:S)-NHC<sub>6</sub>H<sub>4</sub>OH. (p-Hydroxy phenyl thiourea).  
10% T Colorado potato beetle and Mexican bean beetle. 606, 1432.
- 376-591-951-1022.  
Urea, 1-(methoxyphenyl)-2-thio-, CU; CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>NHC(:S)NH<sub>2</sub>? (Urea, methoxy-phenylthio-).  
T as mothproofing agent. 406P, 427P, 1175, 1239P.
- 376-671-963-1021.  
Thiourea, 3-aminocyclohexyl-1, 1-dicyclohexyl-2-thio-? (C<sub>6</sub>H<sub>11</sub>)<sub>2</sub>NC(:S)NHC<sub>6</sub>H<sub>11</sub>NH<sub>2</sub>. (Dicyclohexyl thiourea cyclohexylamine).  
T *Mysis porosus*. 772.
- 376-730-950-1021.  
Urea, 1, 3-di-5-quinolyl-2-thio-; (C<sub>6</sub>H<sub>4</sub>N)NHC(:S)-NH(C<sub>6</sub>H<sub>4</sub>N). (Di-5-quinoline thiourea).  
NT *Pieris rapae*. 635.
- 376-730-951-1021.  
Urea, 1-phenyl-3-(2-pyridyl)-2-thio-; C<sub>6</sub>H<sub>5</sub>NHC(:S)NH(C<sub>5</sub>H<sub>4</sub>N). (α-Phenyl-β-2-pyridyl thiourea).  
88% T mosquito larvae and 52% T codling moth larvae. 487, 1291.
- 376-730-951-1021.  
Urea, 1-phenyl-3-(3-pyridyl)-2-thio-; C<sub>6</sub>H<sub>5</sub>NHC(:S)-NH(C<sub>5</sub>H<sub>4</sub>N). (α-Phenyl-β-3-pyridylthiourea).  
96% T mosquito larvae. 487.
- 376-730-1021.  
Urea, 1, 3-di-2-pyridyl-2-thio-; [(C<sub>5</sub>H<sub>4</sub>N)NH]<sub>2</sub>C(:S). (sym-Di-2-pyridylthiourea).  
40% T mosquito larvae. 487.
- 376-730-1021.  
Urea, 1, 3-di-3-pyridyl-2-thio-; [(C<sub>5</sub>H<sub>4</sub>N)NH]<sub>2</sub>C(:S). (sym-Di-3-pyridylthiourea).  
NT mosquito larvae. 487.
- 376-841-951-1021.  
Urea, 1-(p-bromophenyl)-2-thio-; NH<sub>2</sub>C(:S)NHC<sub>6</sub>H<sub>4</sub>Br.  
36% T *Lucilia sericata* larvae. 723.
- 376-851-951-1022.  
Urea, 1-(chlorotolyl)-2-thio-, CU; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>(Cl)-NHC(:S)NH<sub>2</sub>. (Urea, chlorotolylthio-).  
T as mothproofing agent. 406P, 427P, 1175, 1239P.
- 376-853-951-1021.  
Urea, 1-(trichlorophenyl)-2-thio-, CU; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>-

- NHC(:S)NH<sub>2</sub>. (Urea, trichlorophenyl thio-).  
T as mothproofing agent. 406P, 427P, 1175, 1239P.  
376-924-1021.
- Urea, 1-(1-naphthyl)-2-thio-; C<sub>10</sub>H<sub>7</sub>NHC(:S)NH<sub>2</sub>. (α-Naphthylthiourea).  
10% T Mexican bean beetle and NT Colorado potato beetle. 606, 1432.  
376-924-1021.
- Urea, 1, 3-di-1-naphthyl-2-thio-; C<sub>10</sub>H<sub>7</sub>NHC(:S)-NHC<sub>10</sub>H<sub>7</sub>. (sym-Di-1-naphthylthiourea).  
NT mosquito larvae and *Pieris rapae*. 487, 635.  
376-924-1021.
- Urea, 1, 3-di-2-naphthyl-2-thio-; C<sub>10</sub>H<sub>7</sub>NHC(:S)-NHC<sub>10</sub>H<sub>7</sub>. (Di-β-naphthylthiourea).  
NT *Pieris rapae*. 635.  
376-924-1021.
- Urea, 1, 3-bis(5, 6, 7, 8-tetrahydro-1-naphthyl)-2-thio-; (C<sub>10</sub>H<sub>11</sub>NH)<sub>2</sub>C(:S). (sym-Bis(5, 6, 7, 8-tetrahydro-1-naphthyl)-thiourea).  
NT mosquito larvae. 487.  
376-951-1021.
- Urea, 1-phenyl-2-thio-; C<sub>6</sub>H<sub>5</sub>NHC(:S)NH<sub>2</sub>. (Urea, phenylthio).  
T screwworms and as mothproofing agent; NT mosquito larvae. 156, 172, 406P, 421P, 621P, 623P, 624P, 723, 829P, 977P, 981P, 985, 1175, 1176, 1178, 1239P.  
376-951-1022.
- Urea, 1-benzyl-2-thio-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>NHC(:S)NH<sub>2</sub>. (Urea, benzylthio).  
T as mothproofing agent. 406P, 427P, 1175, 1239P.  
376-951-1022.
- Urea, 1-*o*-tolyl-2-thio-; NH<sub>2</sub>C(:S)NHC<sub>6</sub>H<sub>4</sub>CH<sub>3</sub>.  
53% T *Lucilia sericata* larvae, 20% T silkworm, and T as mothproofing agent. 406P, 427P, 559, 723, 829P, 981P, 985, 1175, 1176, 1239P, 1432.  
376-952-1021.
- Carbanilide, thio-; (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>NC(:S)NH<sub>2</sub>. (Diphenylthiourea).  
20% T silkworm, 10% T Colorado potato beetle, and T as mothproofing agent; NT clothes moth, Japanese beetle, and mosquito larvae. 156, 172, 487, 496, 559, 606, 621P, 622, 739, 828P, 829P, 972P, 985, 1150, 1175, 1176, 1291, 1432.  
376-952-1022.
- Bensidine, *N,N'*-dithiocarbamyl-; [NH<sub>2</sub>C(:S)NHC<sub>6</sub>H<sub>4</sub>]<sub>2</sub>.  
ST Colorado potato beetle and Mexican bean beetle. 606, 1432.  
376-952-1023.
- Urea, 1, 1-dibenzyl-2-thio-; NH<sub>2</sub>C(:S)N(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>. (α-Dibenzylthiourea).  
NT mosquito larvae. 487.  
376-952-1023.
- Urea, 1, 3-dibenzyl-2-thio-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>NHC(:S)NH-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>. (sym-Dibenzylthiourea).  
NT mosquito larvae. 487.  
376-952-1023.
- Urea, 1, 3-di-*o*-tolyl-2-thio-; S:C(NHC<sub>6</sub>H<sub>4</sub>CH<sub>3</sub>)<sub>2</sub>. (Di-*o*-tolylthiourea; 2, 2-dimethylthiocarbaniide; 1, 3-(di-*o*-tolyl)2-thiourea).  
94% T *Culex quinquefasciatus*, 36.1% T codling moth larvae, and MT corn borer at 2 lb./100 gal.; NT clothes moth. 157, 915, 985, 1122, 1176, 1432.  
376-952-1024.
- Biurea, 2,5-dithio-1, 6-di-(*p*-tolyl); CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NHC(:S)NHNHC(:S)NHC<sub>6</sub>H<sub>4</sub>CH<sub>3</sub>. (This compound named di-*p*-tolylhydrazo dithio dicarbonamide by author: present name apparently more correct for formula given).  
NT *Bombyx mori* larvae. 559.  
376-961-1021.
- Urea, 1-cyclohexyl-2-thio-; C<sub>6</sub>H<sub>11</sub>NHC(:S)NH<sub>2</sub>. (Urea, cyclohexylthio).  
T as mothproofing agent. 406P, 427P, 1175, 1239P.  
376-962-1021.
- Urea, 1, 1-dicyclohexyl-2-thio-; NH<sub>2</sub>C(:S)N(C<sub>6</sub>H<sub>11</sub>)<sub>2</sub>.  
NT *Mysus porosus* and greenhouse red spider. 772, 1432.  
376-989-1021.
- Urea, 1-dodecyl-2-thio-; H<sub>2</sub>NC(:S)NHC<sub>12</sub>H<sub>25</sub>.  
40-51% T *Lucilia sericata* larvae. 107P, 112, 723.  
376-989-1021.
- Urea, 1, 3-didodecyl-2-thio-; C<sub>12</sub>H<sub>25</sub>NHC(:S)NHC<sub>12</sub>H<sub>25</sub>.  
42% T *Lucilia sericata* larvae. 723.  
376-995-1021.
- Urea, 1-heptyl-2-thio-; H<sub>2</sub>NC(:S)NHC<sub>7</sub>H<sub>15</sub>. (1-*n*-Heptyl-2-thiourea).  
93-100% T *Lucilia sericata* larvae. 723.  
376-999-1021.
- Urea, 1-amylyl-2-thio-; H<sub>2</sub>NC(:S)NHC<sub>8</sub>H<sub>17</sub>. (1-*n*-Amylyl-2-thiourea).  
89-100% T *Lucilia sericata* larvae. 723.  
376-1001-1021.
- Urea, 1-butyl-2-thio-; H<sub>2</sub>NC(:S)NHC<sub>4</sub>H<sub>9</sub>. (1-*n*-Butyl-2-thiourea).  
89-100% T *Lucilia sericata* larvae. 723.  
376-1001-1021-1030.
- Urea, 1-(2-butanyl)-2-thio-; H<sub>2</sub>NC(:S)NHCH<sub>2</sub>CH<sub>2</sub>:CHCH<sub>3</sub>. (Crotylthiourea).  
NT Colorado potato bug. 606.  
376-1002-1021.
- Urea, 1, 3-dibutyl-2-thio-; C<sub>4</sub>H<sub>9</sub>NHC(:S)NHC<sub>4</sub>H<sub>9</sub>. (1, 3-Di-*n*-butyl-2-thiourea).  
80% T *Lucilia sericata* larvae. 487, 723.  
376-1003-1021.
- Urea, 1-propyl-2-thio-; H<sub>2</sub>NC(:S)NHC<sub>3</sub>H<sub>7</sub>. (1-*n*-Propyl-2-thiourea).  
84-100% T *Lucilia sericata* larvae. 723.  
376-1003-1021-1030.
- Urea, 1-allyl-2-thio-; H<sub>2</sub>NC(:S)NHCH<sub>2</sub>CH<sub>2</sub>:CH<sub>2</sub>. (Urea, allylthio-; thioisamine; 2-propenylthiourea; allylsulfocarbamide).  
16% T culicine mosquito larvae and T as mothproofing agent; NT silkworm larvae. 172, 406P, 427P, 487, 559, 829P, 981P, 985, 1175, 1176, 1178, 1239P, 1432.  
376-1011-1021.
- Urea, 1-ethyl-2-thio-; H<sub>2</sub>NC(:S)NHC<sub>2</sub>H<sub>5</sub>.  
60-100% T *Lucilia sericata* larvae. 723.  
376-1012-1021.
- Urea, 1, 3-diethyl-2-thio-; (C<sub>2</sub>H<sub>5</sub>NH)<sub>2</sub>C(:S). (sym-Diethylthiourea).  
80-94% T *Lucilia sericata* larvae. 723.  
376-1021.
- Urea, thio-; (H<sub>2</sub>N)<sub>2</sub>C(:S). (Thiocarbamide).  
89-100% T *Lucilia sericata* larvae, T mosquito larvae, and as mothproofing agent. 172, 683, 723, 828P, 829P, 972P, 973P, 977P, 985, 1175, 1176, 1178, 1471.  
376-1021-1045.
- Urea, thio-, derivatives, CU.  
T as mothproofing agent. 387, 406P, 416P, 424P, 427P, 540P, 622, 1013P, 1175, 1178, 1213P, 1239P.  
376-1022.
- Urea, 1-methyl-2-thio-; H<sub>2</sub>NC(:S)NHCH<sub>3</sub>.  
93-100% T *Lucilia sericata* larvae. 723.  
376-1023.
- Urea, 1, 3-dimethyl-2-thio-; (CH<sub>3</sub>NH)<sub>2</sub>C(:S).  
T *Lucilia sericata* larvae. 723.  
377-951-1022-1391.
- Pseudourea, 2-benzyl-2-thio-, hydrochloride; C<sub>6</sub>H<sub>5</sub>-CH<sub>2</sub>SC(:NH)NH<sub>2</sub>.HCl. (Benzyl isothioureahydrochloride).  
NT *Bombyx mori* larvae. 559, 1432.  
385-951-997.
- Isoacproanilide, thio-; C<sub>6</sub>H<sub>11</sub>C(:S)NHC<sub>6</sub>H<sub>5</sub>. (Thioisocaproic acid anilide).  
T as mothproofing agent. 420P, 424P, 1175.  
385-951-999.
- Isovaleranilide, thio-; C<sub>4</sub>H<sub>9</sub>C(:S)NHC<sub>6</sub>H<sub>5</sub>. (Thioisovaleric acid anilide).  
T as mothproofing agent. 420P, 424P, 1175.  
385-951-1011.
- α-Toluamide, thio-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>C(:S)NH<sub>2</sub>. (Acetamide, α-phenyl thio-).  
HT *Lucilia sericata* larvae; 35% T silkworm. 559, 723, 1432.  
385-951-1011.
- Acetanilide, thio-; CH<sub>3</sub>C(:S)NHC<sub>6</sub>H<sub>5</sub>.  
T codling moth, screwworm, silkworm, Colorado potato beetle, Mexican bean beetle, *Lucilia sericata*, and as mothproofing agent. 186, 420P, 424P, 487, 559, 606, 723, 915, 1175, 1432.

- 385-951-1021.  
Benzamide, thio-;  $C_6H_5C(:S)NH_2$ .  
T as mothproofing agent. 420P, 424P, 1175.
- 385-951-1022.  
o-Toluamide, thio-;  $CH_3C_6H_4C(:S)NH_2$ .  
NT mosquito larvae. 487.
- 385-952-1011.  
a-Toluanilide, thio-;  $C_6H_5CH_2C(:S)NHC_6H_5$ . (Thio-phenylacetate anilide).  
T as mothproofing agent. 420P, 424P, 1175.
- 385-952-1021.  
Benzamide, thio-;  $C_6H_5C(:S)NHC_6H_5$ .  
62-100% T *Lucilia sericata* larvae and 75% T mosquito larvae. 487, 723.
- 385-990.  
Propionamide, a,a-dimethyl thio-;  $(CH_3)_2CC(:S)-NH_2$ . (Thiotrimethyl acetamide).  
94% T codling moth larvae and 26% T mosquito larvae; NT *bombyx mori* larvae. 487, 559, 1291.
- 385-1003.  
Propionamide, thio-;  $CH_3CH_2C(:S)NH_2$ .  
69-100% T *Lucilia sericata* larvae; NT mosquito larvae. 487, 723.
- 385-1003-1011-1030.  
Acetamide, N-allylthio-;  $CH_3C(:S)NHCH_2CH:CH_2$ .  
91-100% T *Lucilia sericata* larvae. 723.
- 385-1004-1030.  
Propionamide, N-allylthio-;  $CH_3CH_2C(:S)NHCH_2CH:CH_2$ .  
64-100% T *Lucilia sericata* larvae. 723.
- 385-1011.  
Acetamide, thio-;  $CH_3C(:S)NH_2$ . (Ethanethionamide; acetothioamide).  
91-100% T *Lucilia sericata* larvae and 20% T culicine mosquito larvae; NT codling moth and *Bombyx mori* larvae. 172, 559, 723, 915, 1178, 1432.
- 385-1011.  
Oxamide, dithio-;  $NH_2C(:S)C(:S)NH_2$  (Dithiooxal-  
amide; rubenian acid).  
T *Cochliomyia americana* at 0.10%; NT mosquito larvae. 172, 944, 1178.
- 385-1450.  
Thio compounds, CU;  $RC(:S)NHR'$ .  
T as mothproofing agent. 420P, 424P, 1175.
- 385-581-952-1011-1291.  
a-Toluidimide acid, p-hydroxythio-, phenyl ester, hydrochloride;  $HOC_6H_4CH_2C(:NH.HCl)SC_6H_5$ . (p-Hydroxyphenylacetimido-thiophenylether hydrochloride).  
ST mosquito larvae. 172.
- 385-582-952-1021-1291.  
Benzimidic acid, 2, 4-dihydroxythio-, phenyl ester, hydrochloride;  $(HO)_2C_6H_3CH_2C(:NH.HCl)SC_6H_5$ . (2, 4-Dihydroxybenzimidido-thiophenylether hydrochloride).  
100% T mosquito larvae. 172, 1178.
- 385-583-952-1021-1291.  
Benzimidic acid, 2, 4, 6-trihydroxythio-, phenyl ester, hydrochloride;  $(HO)_3C_6H_2CH_2C(:NH.HCl)SC_6H_5$ . (Sulphide, 2, 4, 6-trihydroxybenzimidido phenyl, hydrochloride; 2, 4, 6-trihydroxybenzimidido-thiophenylether hydrochloride).  
22% T culicine mosquito larvae. 172, 1178.
- 385-952-1011-1021-1291.  
a-Toluidimide acid, thio-, p-tolyl ester, hydrochloride;  $C_6H_5CH_2C(:NH.HCl)SC_6H_4CH_3$ . (Sulphide, phenylacetimido p-tolyl, hydrochloride; phenylacetamido-thio-p-tolylether hydrochloride).  
95% T culicine mosquito larvae. 172, 1178.
- 385-952-1011-1291.  
a-Toluidimide acid, thio-, phenyl ester, hydrochloride;  $C_6H_5CH_2C(:NH.HCl)SC_6H_5$ . (Sulphide, phenylacetimido phenyl, hydrochloride; phenylacetamido-thiophenylether hydrochloride).  
100% T culicine mosquito larvae. 172, 1178.
- 385-952-1021-1291.  
Benzimidic acid, thio-, phenyl ester, hydrochloride;  $C_6H_5C(:NH.HCl)SC_6H_5$ . (Benzimidophenyl sulphide, hydrochloride; benzimidido-thiophenyl ether hydrochloride).  
100% T culicine mosquito larvae. 172, 1178.
- 385-1021-1045.  
Imides, N-substituted thio-, CU. (Nitrogen substituted sulfimides). 685P.
390.  
Amides, sulfur containing, CU. 350P, 1432.
- 401-541-591-1012-1022.  
Thiocyanic acid, 2-(2-formoxyethoxy) ethyl ester;  $HOOCH_2CH_2OCH_2CH_2SCN$ . ( $\beta$ -Thiocyano- $\beta'$ -formoxydiethyl ether).  
Fly spray. 112, 1032P.
- 401-541-983-1021.  
Stearic acid, thiocyanato-;  $NCSC_{17}H_{33}COOH$ . (Thiocyano-octadecanoic acid).  
Fly spray. 106P, 112.
- 401-541-983-1021-1172.  
Stearic acid, thiocyanato, magnesium salt;  $(NCSC_{17}H_{33}COO)_2Mg$ . (Thiocyano-magnesium octadecanoate).  
Fly spray. 106P, 112.
- 401-541-989-1021.  
Lauric acid, thiocyanato-;  $NCSC_{11}H_{23}COOH$ .  
Fly spray. 106P, 112.
- 401-541-991-1021.  
Capric acid, thiocyanato-;  $NCSC_9H_{19}COOH$ . (Thiocyano decanoic acid).  
Fly spray. 106P, 112.
- 401-551-581-930-983-1024-1030.  
Ricinoleic acid, thiocyanato-, 2-fenchanyl ester;  $NCSC_{17}H_{33}(OH)COOC_{10}H_{17}$ . (Ricinoleic acid, thiocyanato-, fenchyl ester).  
Fly spray. 100P, 112.
- 401-551-581-930-983-1024-1030.  
Ricinoleic acid, thiocyanato-, isobornyl ester;  $NCSC_{17}H_{33}(OH)COOC_{10}H_{17}$ .  
Fly spray. 100P, 112.
- 401-551-581-932-983-1024-1030.  
Ricinoleic acid, thiocyanato-, pinene esters;  $NCSC_{17}H_{33}(OH)COOC_{10}H_{16}$ .  
Fly spray. 100P, 112.
- 401-551-591-625-1012-1022.  
Thiocyanic acid, 2-(2-furoxyethoxy)ethyl ester;  $(C_4H_5O)COOC_2H_4OC_2H_4SCN$ . ( $\beta$ -Thiocyano- $\beta$ -furoxydiethyl ether).  
Fly spray. 112, 1032P.
- 401-551-591-951-1012-1022.  
Thiocyanic acid, 2-(2-benzyloxyethoxy)ethyl ester;  $C_6H_5COOC_2H_4OC_2H_4SCN$ . ( $\beta$ -Thiocyano- $\beta'$ -benzyloxydiethyl ether).  
Fly spray. 112, 1032P.
- 401-551-591-952-1011-1023.  
Thiocyanic acid, 2[2-(phenylmethoxy)benzyloxy] ethyl ester;  $C_6H_5CH_2OC_6H_4COOC_2H_4SCN$ .  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 401-551-591-956-1004-1023.  
Propionic acid, thiocyanato-, ester of methyl ether of terpinene;  $NCSC_8H_7CH_2COOC_{10}H_{15}OCH_3$ .  
Fly spray. 92P, 112.
- 401-551-591-957-1004-1023.  
Propionic acid, thiocyanato-, ester of methyl ether of terpinolene;  $NCSC_8H_7CH_2COOC_{10}H_{15}OCH_3$ .  
Fly spray. 92P, 112.
- 401-551-591-957-1004-1023-1030.  
Propionic acid, thiocyanato-, ester of methyl ether of dipentene;  $NCSC_8H_7CH_2COOC_{10}H_{15}OCH_3$ .  
Fly spray. 92P, 112.
- 401-551-591-999-1012-1021.  
Thiocyanic acid, 2-(2-butyroxyethoxy)ethyl ester;  $C_4H_9COOC_2H_4CH_2OCH_2CH_2SCN$ . ( $\beta$ -Thiocyano- $\beta'$ -butyroxidiethyl ether).  
Fly spray. 112, 1032P.
- 401-551-591-1001-1012-1021.  
Thiocyanic acid, 2-(2-isobutyroxyethoxy)ethyl ester;  $(CH_3)_2CHCOOC_2H_4OC_2H_4SCN$ . ( $\beta$ -Thiocyano- $\beta'$ -isobutyroxidiethyl ether; thiocyanato-ethoxy ethyl isobutyrate).  
Fly spray. 112, 689P, 1032P.
- 401-551-591-1003-1012-1021.  
Propionic acid,  $\beta$ -thiocyano-, 2-ethoxyethyl ester;  $NCSC_2H_4COOC_2H_4OC_2H_5$ . (Propionic acid,  $\beta$ -thiocyano-,  $\beta$ -ethoxyethyl ester).  
T flies. 673P, 1178, 1202P, 1203P.
- 401-551-591-1003-1023.  
Propionic acid,  $\beta$ -thiocyano-, methoxymethyl ester;  $CH_3OCH_2COOC_2H_4OC_2H_5SCN$ . (Methoxymethylthiocyanopropionate; "Thioquinosole"). 1432, 1480P.
- 401-551-591-1012-1021-1045.  
Carboxylic acid, thiocyanato-, 2-ethoxyethyl ester, CU;  $NCSC_2H_4COOC_2H_4CH_2OCH_2CH_3$ . ( $\beta$ -Ethoxyethyl ester of thiocyanocarboxylic acid).  
Fly spray. 112, 1032P.

- 401-551-581-1012-1022.  
Thiocyanic acid, 2-(2-acetoxyethoxy)ethyl ester;  $\text{CH}_3\text{COOCH}_2\text{CH}_2\text{OCH}_2\text{SCN}$ . ( $\beta$ -Thiocyano- $\beta'$ -acetoxy-diethyl ether).  
Fly spray. 112, 1032P.
- 401-551-591-1012-1021.  
Acetic acid, thiocyanato-, 2-ethoxyethyl ester  $\text{NCSCH}_2\text{COOCH}_2\text{CH}_2\text{OCH}_2\text{H}_8$ . ( $\beta$ -Ethoxyethyl thiocyanacetate). 112, 673P, 1032P, 1178, 1202P, 1203P, 1204P.
- 401-551-592-1001-1012-1021.  
Acetic acid, thiocyanato-, 2-(2-butoxyethoxy)ethyl ester;  $\text{C}_4\text{H}_9\text{OCH}_2\text{CH}_2\text{OCH}_2\text{H}_8\text{OCH}_2\text{SCN}$ . (Acetic acid, thiocyanato-, diethylene glycol butyl ether ester;  $\beta$ -thiocyanacetate of diethylene glycol monobutyl ether).  
ET garden centipede and *Aphis rumicis*. 648, 1178, 1432, 1487.
- 401-551-592-1014-1021.  
Thiocyanic acid, 2-[2-(ethoxyacetoxy)ethoxy] ethyl ester;  $\text{C}_2\text{H}_5\text{OCH}_2\text{COOCH}_2\text{CH}_2\text{OCH}_2\text{H}_8\text{SCN}$ . ( $\beta$ -Thiocyano- $\beta'$ -(ethoxyacetoxy)-diethyl ether).  
Fly spray. 112, 1032P.
- 401-551-626-1011-1022.  
Thiocyanic acid, 2-(2-furoxy)ethyl ester;  $(\text{C}_4\text{H}_5\text{O})\text{OCH}_2\text{COOCH}_2\text{H}_8\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl furoate).  
Fly spray. 112, 689P.
- 401-551-930-983-1024.  
Stearic acid,  $\alpha$ -thiocyano-, isobornyl ester;  $\text{CH}_3(\text{CH}_2)_{18}\text{CH}(\text{SCN})\text{COOC}_i\text{H}_{17}$ .  
Fly spray. 100P, 112.
- 401-551-930-1001-1024.  
*n*-Butyric acid,  $\alpha$ -thiocyano-, bornyl ester;  $\text{C}_4\text{H}_9\text{CH}(\text{SCN})\text{COOC}_i\text{H}_{17}$ .  
Fly spray. 102P, 112.
- 401-551-930-1003-1024.  
Propionic acid,  $\alpha$ -thiocyano-, fenchyl ester;  $\text{CH}_3\text{CH}(\text{SCN})\text{COOC}_{10}\text{H}_{17}$ .  
HT houseflies at 5%. 90P, 95P, 102P, 112.
- 401-551-930-1003-1024.  
Propionic acid,  $\beta$ -thiocyano-, fenchyl ester;  $\text{NCSCH}_2\text{CH}_2\text{COOC}_{10}\text{H}_{17}$ .  
MT houseflies at 5%. 95P, 112.
- 401-551-930-1003-1024.  
Propionic acid,  $\alpha$ -thiocyano-, isobornyl ester;  $\text{CH}_3\text{CH}(\text{SCN})\text{COOC}_i\text{H}_{17}$ .  
Fly spray. 102P, 112.
- 401-551-930-1011-1024.  
Acetic acid, thiocyanato-, bornyl ester;  $\text{NCSCH}_2\text{COOC}_i\text{H}_{17}$ .  
Fly spray. 95P, 102P, 112.
- 401-551-930-1011-1024.  
Acetic acid, thiocyanato-, isobornyl ester;  $\text{NCSCH}_2\text{COOC}_i\text{H}_{17}$ .  
Fly spray. 90P, 102P, 112.
- 401-551-930-1011-1024.  
Acetic acid, thiocyanato-, fenchyl ester;  $\text{NCSCH}_2\text{COOC}_{10}\text{H}_{17}$ .  
HT houseflies at 5%. 95P, 112.
- 401-551-932-1001-1024.  
Butric acid,  $\alpha$ -thiocyano-, pinene ester;  $\text{C}_{10}\text{H}_{17}\text{CH}(\text{SCN})\text{COOC}_{10}\text{H}_{18}$ . (Thiocyanobutyrate derived from pinene).  
Fly spray. 97P, 112.
- 401-551-932-1003-1024.  
Propionic acid,  $\alpha$ -thiocyano-, pinene ester;  $\text{CH}_3\text{CH}(\text{SCN})\text{COOC}_{10}\text{H}_{18}$ .  
Fly spray. 102P, 112.
- 401-551-932-1021-1045.  
Coconut oil acids, thiocyanato-, bornyl esters. (Bornyl thiocyanato fatty acid esters from coconut oil acids).  
Fly spray. 100P, 112.
- 401-551-932-1021-1045.  
Coconut oil acids, thiocyanato-, isobornyl esters. (Isobornyl thiocyanato fatty acid esters from coconut oil acids).  
Fly spray. 100P, 112.
- 401-551-932-1021-1045.  
Coconut oil acids, thiocyanato-, fenchyl esters. (Fenchyl thiocyanato fatty acid esters from coconut oil acids).  
Fly spray. 100P, 112.
- 401-551-951-1011-1022.  
Thiocyanic acid, 2-benzyloxyethyl ester;  $\text{C}_6\text{H}_5\text{COOCH}_2\text{CH}_2\text{SCN}$ .  
Fly spray. 112, 689P.
- 401-551-957-1001-1003-1022.  
Butyric acid,  $\alpha$ -thiocyano-, terpinyl ester;  $\text{CH}_3\text{CH}_2\text{CH}(\text{SCN})\text{COOC}_{10}\text{H}_{17}$ . (Terpinyl thiocyanobutyrate).  
Fly spray. 96P, 112.
- 401-551-957-1001-1003-1022-1030.  
Butyric acid,  $\alpha$ -thiocyano-, terpinolene esters;  $\text{CH}_3\text{CH}_2\text{CH}(\text{SCN})\text{COOC}_{10}\text{H}_{18}$ .  
Fly spray. 92P, 112.
- 401-551-957-1003-1011-1022.  
Acetic acid, thiocyanato-, terpinyl ester;  $\text{NCSCH}_2\text{COOC}_{10}\text{H}_{17}$ .  
Fly spray. 96P, 112.
- 401-551-957-1003-1011-1022-1030.  
Acetic acid, thiocyanato-, terpinolene ester;  $\text{NCSCH}_2\text{COOC}_{10}\text{H}_{18}$ .  
Fly spray. 97P, 112.
- 401-551-957-1004-1022.  
Propionic acid,  $\alpha$ -thiocyano-, terpinyl ester;  $\text{CH}_3\text{CH}(\text{SCN})\text{COOC}_{10}\text{H}_{17}$ . (Terpinyl thiocyanopropionate).  
Fly spray. 96P, 112.
- 401-551-961-1001-1003-1022.  
Butyric acid, thiocyanato-, hydroterpinyl ester;  $\text{NCSCH}_2\text{CH}_2\text{COOC}_{10}\text{H}_{18}$ . (Hydroterpinyl thiocyanobutyrate). 91P.
- 401-551-961-1003-1011-1022.  
Acetic acid, thiocyanato-, hydroterpinyl ester;  $\text{NCSCH}_2\text{COOC}_{10}\text{H}_{18}$ .  
Fly spray. 91P, 112.
- 401-551-961-1003-1021.  
Propionic acid,  $\beta$ -thiocyano-, cyclohexyl ester;  $\text{C}_6\text{H}_{11}\text{OOCCH}_2\text{CH}_2\text{SCN}$ . 673P, 1178, 1202P, 1203P, 1204P.
- 401-551-961-1004-1022.  
Propionic acid, thiocyanato-, hydroterpinyl ester;  $\text{NCSCH}_2\text{CH}_2\text{COOC}_{10}\text{H}_{18}$ .  
Fly spray. 91P, 96P, 112.
- 401-551-961-1011-1021.  
Acetic acid, thiocyanato-, cyclohexyl ester;  $\text{NCSCH}_2\text{COOC}_6\text{H}_{11}$ . (Cyclohexyl thiocyanacetate). 112, 673P, 1032P, 1178, 1202P, 1203P, 1204P.
- 401-551-975-1011-1022.  
Thiocyanic acid, naphthemyloxyethyl ester, CU;  $\text{RCOOCCH}_2\text{CH}_2\text{SCN}$ . (Thiocyanoethyl ester of naphthemic acid).  
Fly spray. 112, 689P.
- 401-551-989-1011-1021.  
Acetic acid, thiocyanato-, dodecyl ester;  $\text{NCSCH}_2\text{COOC}_{12}\text{H}_{25}$ . (Lauryl thiocyanacetate).  
Fly spray. 112, 1032P.
- 401-551-989-1011-1021.  
Thiocyanic acid, 2-lauroxyethyl ester;  $\text{C}_{11}\text{H}_{23}\text{COOCH}_2\text{CH}_2\text{SCN}$ . ( $\beta$ -Thiocyanoethyl ester of lauric acid;  $\beta$ -thiocyano-ethyl laurate).  
Fly spray. 112, 689P, 1032P.
- 401-551-989-1011-1021-1045.  
Carboxylic acid, thiocyanato-, lauryl ester, CU;  $\text{RCH}(\text{SCN})\text{COOC}_{12}\text{H}_{25}$ .  
Fly spray. 112, 1032P.
- 401-551-993-1003-1021.  
Propionic acid,  $\beta$ -thiocyano-, *sec*-octyl ester;  $\text{C}_8\text{H}_{17}\text{OOCCH}_2\text{CH}_2\text{SCN}$ . 673P, 1178, 1202P, 1203P.
- 401-551-993-1011-1021.  
Acetic acid, thiocyanato-, *sec*-octyl ester;  $\text{C}_8\text{H}_{17}\text{OOCCH}_2\text{SCN}$ . (*sec*-Octyl thiocyanacetate). 112, 673P, 1032P.
- 401-551-999-1003-1021.  
Propionic acid,  $\beta$ -thiocyano-, amyl ester;  $\text{C}_5\text{H}_{11}\text{OOCCH}_2\text{CH}_2\text{SCN}$ . 673P, 1178, 1202P, 1203P, 1204P.
- 401-551-999-1011-1021.  
Acetic acid, thiocyanato-, amyl ester;  $\text{C}_5\text{H}_{11}\text{OOCCH}_2\text{SCN}$ .  
Fly spray. 112, 673P, 1032P, 1178, 1202P, 1203P, 1204P.
- 401-551-999-1011-1021-1045.  
Carboxylic acid, thiocyanato-, amyl ester, CU;  $\text{RCH}(\text{SCN})\text{COOC}_5\text{H}_9$ .  
Fly spray. 112, 1032P.
- 401-551-1001-1003-1021.  
Propionic acid,  $\beta$ -thiocyano-, butyl ester;  $\text{C}_4\text{H}_9\text{OOCCH}_2\text{CH}_2\text{SCN}$ . 673P, 1178, 1202P, 1203P, 1204P.
- 401-551-1001-1011-1021.  
Acetic acid, thiocyanato-, butyl ester;  $\text{C}_4\text{H}_9\text{OOCCH}_2\text{SCN}$ .  
Fly spray. 112, 1032P.

- 401-551-1008-1011-1021.  
Propionic acid,  $\alpha$ -thiocyano-, ethyl ester;  $\text{C}_2\text{H}_5\text{-OOCCH}(\text{SCN})\text{CH}_3$ .  
T *Aphis rumicis* 648, 1178.
- 401-551-1008-1011-1021.  
Propionic acid,  $\beta$ -thiocyano-, ethyl ester;  $\text{C}_2\text{H}_5\text{-OOCCH}_2\text{HSCN}$ .  
T *Aphis rumicis* 648, 1178.
- 401-551-1008-1021-1027.  
Propionic acid, thiocyno-, esters, CU;  $\text{NCSCH}_2\text{CH}_2\text{-COOR}$ . (Esters of  $\beta$ -thiocyanopropionic acid).  
The above formula where R is a hydrocarbon radical.  
Fly spray. 112, 1032P.
- 401-551-1011-1021-1045.  
Coconut oil acids, thiocyno-, ethyl esters.  
Fly spray. 112, 689P.
- 401-551-1011-1022.  
Acetic acid, thiocyno-, methyl ester;  $\text{CH}_3\text{OOCCH}_2\text{-SCN}$ . (Methylthiocyanacetate).  
T flies, mosquitoes, and moths. 648, 1178, 1202P, 1432, 1487.
- 401-551-1011-1022-1045.  
Carboxylic acid, thiocyno-, methyl ester, CU;  $\text{RCH}(\text{SCN})\text{COOCH}_3$ .  
Fly spray. 112, 1032P.
- 401-551-1012-1021-1045.  
Carboxylic acid, thiocyno-, ethyl ester;  $\text{RCH}(\text{SCN})\text{-COOC}_2\text{H}_5$ .  
Fly spray. 112, 1032P.
- 401-551-1012-1022.  
Thiocyanic acid, 2-acetoxyethyl ester;  $\text{CH}_3\text{COOCH}_2\text{-CH}_2\text{SCN}$ . ( $\beta$ -Thiocyanoethyl ester of acetic acid).  
Fly spray. 112, 1032P.
- 401-551-1021-1027.  
Fatty acids, thiocynoethyl esters, CU.  
Fly spray. 112, 314P, 689P.
- 401-551-1027.  
Thiocyanic acid, acyloxyalkyl esters, CU.  
Fly spray. 112, 689P.
- 401-551-1027-1030.  
Fatty acids, thiocyno-, unsaturated aliphatic esters, CU, 314P.
- 401-552-1003-1012-1021.  
Malonic acid, thiocyno-, diethyl ester;  $(\text{C}_2\text{H}_5\text{-OOC})_2\text{CHSCN}$ . 112, 1032P, 1178, 1202P.
- 401-571-951-1011-1021.  
Acetophenone,  $\alpha$ -thiocyno-;  $\text{C}_6\text{H}_5\text{COCH}_2\text{SCN}$ . (Thiocyanic acid, phenacyl ester? acetophenone,  $\omega$ -thiocyano-).  
T *Aphis rumicis*; NT silkworm. 644, 648, 1178, 1202P.
- 401-571-951-1011-1021.  
Acetophenone, thiocyno-, CU;  $\text{NCSCH}_2\text{CH}_2\text{COCH}_3$ .  
Fly spray. 112, 1032P.
- 401-571-952-1011-1021.  
Acetophenone, *p*-phenyl- $\alpha$ -thiocyno-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{-COCH}_2\text{SCN}$ .  
16% T mosquito larvae. 487, 1291.
- 401-571-961-1021-1027.  
Cyclohexanone, polyalkylated, thiocyno-. 139P.
- 401-571-1003-1021.  
2-Propanone, 1-thiocyno-,  $\text{CH}_3\text{COCH}_2\text{SCN}$ . (Thiocyano acetone).  
Fly spray. 112, 673P, 1032P, 1178, 1203P.
- 401-581-924-1021.  
Thiocyanic acid, hydroxynaphthyl ester, CU;  $\text{HOC}_{10}\text{-HSCN}$ . (Thiocyanohydroxynaphthalene).  
Fly spray. 112, 380P, 384P, 385P, 1032P, 1178, 1474P.
- 401-581-961-1021-1027.  
Cyclohexanol, polyalkylated, thiocyno-. 139P.
- 401-591-671-951-1022.  
Thiocyanic acid, aminoanil ester, CU;  $\text{NH}_2(\text{CH}_2\text{-O})_2\text{C}_6\text{H}_4\text{SCN}$ .  
Fly spray. 112, 1032P, 1178, 1202P.
- 401-591-671-951-1022.  
Anisidine,  $\alpha$ -thiocyno-;  $\text{NH}_2\text{C}_6\text{H}_4\text{OCH}_2\text{SCN}$ . (Thiocyanoanisidine). 674P.
- 401-591-671-952-1021.  
Thiocyanic acid, 2-amino-5-(phenylmethoxy)phenyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{NH}_2)\text{SCN}$ .  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 401-591-699-952-1022-1291.  
Thiocyanic acid, 4-aminohydrochloride-3-phenylme-  
thoxyphenyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{NH}_2\text{HCl})\text{SCN}$ .  
Fly spray. 112, 692P.
- 401-591-841-851-951-961-1012-1021.  
Thiocyanic acid, 2-[2-(4-bromo-2-chloro-6-cyclohexylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{Br})(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Chloro-4-bromo-6-cyclohexylphenoxy)- $\beta'$ -thiocyano diethyl ether).  
Fly spray. 112, 223P.
- 401-591-841-851-951-1003-1021.  
Thiocyanic acid, 3-(2-bromo-4-chlorophenoxy) propyl ester;  $\text{Cl}(\text{Br})\text{C}_6\text{H}_4\text{OC}_3\text{H}_6\text{SCN}$ . ( $\gamma$ -Thiocyanopropyl ether of 2-bromo-4-chloro-phenol).  
Fly spray. 112, 208P.
- 401-591-841-852-951-1011-1021.  
Thiocyanic acid, 2-(4-bromo-2, 6-dichlorophenoxy) ethyl ester;  $(\text{Cl})_2(\text{Br})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2, 6-Dichloro-4-bromo-phenoxy)-ethyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-841-853-951-1011-1021.  
Thiocyanic acid, 2-(2-bromo-3, 4, 6-trichlorophenoxy)ethyl ester;  $(\text{Cl})_3(\text{Br})\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 2, 4, 5-trichloro-6-bromo-phenol;  $\beta$ -(2, 4, 5-trichloro-6-bromo-phenoxy)-ethyl-thiocyanate).  
Fly spray. 112, 208P, 218P.
- 401-591-841-951-1001-1021.  
Thiocyanic acid, 3-(*p*-bromophenoxy)-2-methylpropyl ester;  $\text{BrC}_6\text{H}_4\text{OCH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . ( $\gamma$ -(4-Bromophenoxy)-isobutyl-thiocyanate).  
Fly spray. 112, 218P.
- 401-591-841-951-1003-1011-1022.  
Thiocyanic acid, 2-(3-bromocarvacroxy)ethyl ester;  $(\text{CH}_3)_2\text{CHC}_6\text{H}_3(\text{Br})(\text{CH}_3)\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 5-bromo-carvacrol;  $\beta$ -(5-Bromocarvacroxy)ethyl-thiocyanate).  
MT houseflies at 3%, 112, 220P, 221P.
- 401-591-841-951-1003-1021.  
Thiocyanic acid, 3-(*p*-bromophenoxy)propyl ester;  $\text{BrC}_6\text{H}_4\text{OC}_3\text{H}_6\text{SCN}$ . ( $\gamma$ -(4-Bromo-phenoxy)-propyl-thiocyanate).  
Fly spray. 112, 218P.
- 401-591-841-951-1011-1021.  
Thiocyanic acid, 2-(*p*-bromophenoxy)ethyl ester;  $\text{BrC}_6\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(4-Bromo-phenoxy)-ethyl thiocyanate;  $\beta$ -thiocyano-ethyl ether of 4-bromophenol).  
HT houseflies at 3%, 112, 208P, 218P.
- 401-591-841-951-1012-1021.  
Thiocyanic acid, 2-(2-bromo-4-ethylphenoxy) ethyl ester;  $\text{C}_2\text{H}_5\text{C}_6\text{H}_3(\text{Br})\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyanoethyl ether of 2-bromo-4-ethyl phenol;  $\beta$ -(2-bromo-4-ethyl-phenoxy)-ethyl thiocyanate).  
HT houseflies at 3%, 112, 220P, 221P.
- 401-591-841-952-1011-1021.  
Thiocyanic acid, 2-(3-bromo-4-biphenyloxy) ethyl ester;  $\text{C}_2\text{H}_5\text{C}_6\text{H}_3(\text{Br})\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-(2-bromo-4-phenyloxy) ethyl ester; reaction product of alkali metal thiocyanate and  $\beta$ -chloro-ethyl and 2-bromo-4-phenyl-phenol).  
Fly spray. 112, 864P.
- 401-591-841-952-1022.  
Thiocyanic acid, 4-[(*p*-bromophenoxy) phenyl] methyl ester;  $\text{BrC}_6\text{H}_4\text{OC}_6\text{H}_4\text{CH}_2\text{SCN}$ . (4-Thiocyano-methylphenyl-4-bromophenyl ether).  
52% T mealy bugs. 262P.
- 401-591-843-951-1011-1021.  
Thiocyanic acid, 2-(2, 4, 6-tribromophenoxy) ethyl ester;  $\text{Br}_3\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 2, 4, 6-tribromophenol;  $\beta$ -(2, 4, 6-tribromophenoxy)-ethyl thiocyanate).  
Fly spray. 112, 208P, 218P.
- 401-591-851-951-999-1021.  
Thiocyanic acid, 2-(*p*-chlorophenoxy)amyl ester;  $\text{ClC}_6\text{H}_4\text{OCH}_2(\text{C}_2\text{H}_5)_3\text{CH}_2\text{SCN}$ . ( $\beta$ -(4-Chlorophenoxy)-amyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-851-951-999-1021.  
Thiocyanic acid, 5-(*p*-chlorophenoxy)amyl ester; (Thiocyanic acid, *p*-chlorophenoxyamyl ester; thiocyano-pentyl ether of 4-chlorophenol).  
Fly spray. 112, 208P.
- 401-591-851-951-1001-1011-1021.  
Thiocyanic acid, 2-(4-*tert*-butyl-2-chlorophenoxy) ethyl ester;  $(\text{CH}_3)_3\text{CC}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 2-chloro-4-*tert*-butyl phen-

- ol;  $\beta$ -(2-chloro-4-tertiary-butyl-phenoxy) ethyl thiocyanate).  
Fly spray. 112, 220P, 221P.
- 401-591-851-951-1001-1021.  
Thiocyanic acid, 3-(*p*-chlorophenoxy)isobutyl ester;  $\text{ClC}_6\text{H}_4\text{OCH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . ( $\gamma$ -(4-Chlorophenoxy)-isobutyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-851-951-1003-1021.  
Thiocyanic acid, 3-(4-*tert*-butyl-2-chlorophenoxy)-isobutyl ester;  $(\text{CH}_3)_2\text{CC}_6\text{H}_3(\text{Cl})\text{OCH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . (Thiocyanic acid, 3-(4-*tert*-butyl-2-chlorophenoxy)-2-methylpropyl ester;  $\gamma$ -thiocyano-isobutyl ether of 2-chloro-4-tertiary butyl phenol;  $\gamma$ -(2-chloro-4-tertiary-butyl)-isobutyl thiocyanate[isiel]).  
HT houseflies at 3%. 112, 220P, 221P.
- 401-591-851-951-1003-1021.  
Thiocyanic acid, 2-(*m*-chlorophenoxy)propyl ester;  $\text{ClC}_6\text{H}_4\text{OCH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . ( $\gamma$ -Thiocyano-propyl ether of 3-chlorophenol).  
Fly spray. 112, 208P.
- 401-591-851-951-1003-1021.  
Thiocyanic acid, 2-(*p*-chlorophenoxy)isopropyl ester;  $\text{ClC}_6\text{H}_4\text{OCH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . (Thiocyanic acid, 2-(*p*-chlorophenoxy)propyl ester;  $\beta$ -(4-chlorophenoxy)-propyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-851-951-1003-1021.  
Thiocyanic acid, 3-(*o*-chlorophenoxy)propyl ester;  $\text{ClC}_6\text{H}_3\text{OC}_6\text{H}_4\text{SCN}$ . ( $\gamma$ -(2-Chloro-phenoxy)-propyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-851-951-1011-1021.  
Thiocyanic acid, 2-(*o*-chlorophenoxy)ethyl ester;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Chloro-phenoxy)-ethyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-851-951-1011-1021.  
Thiocyanic acid, 2-(*p*-chlorophenoxy)ethyl ester;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 4-chlorophenol;  $\beta$ -(4-chloro-phenoxy)-ethyl thiocyanate).  
HT houseflies at 3%. 112, 208P, 218P.
- 401-591-851-951-1025.  
*m*-Xylene,  $\alpha,\alpha'$ -dithiocyano-6-chloro-4-methoxy-;  $\text{CH}_3\text{OC}_6\text{H}_3(\text{CH}_2\text{SCN})_2\text{Cl}$ ? (Thiocyanate, 1-methoxy-3-chloro-4, 6-xylidyl).  
T as mothproofing agent. 372P, 1175.
- 401-591-851-952-1011-1021.  
Thiocyanic acid, 3-(chlorobiphenyloxy)ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{OC}_6\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-(3-chlorophenylphenoxy)ethyl ester; reaction product of alkali metal thiocyanate and 2-chloroethyl ether of 3-chlorophenyl-phenol).  
Fly spray. 112, 864P.
- 401-591-851-952-1011-1021.  
Thiocyanic acid, 2-(5-chloro-2-biphenyloxy) ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{Cl})\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 2-phenyl-4-chloro-phenol; reaction product of alkali metal thiocyanate and  $\beta$ -chloro-ethyl ether of 2-phenyl-4-chlorophenol;  $\beta$ -(2-phenyl-4-chlorophenoxy)-ethyl thiocyanate).  
HT houseflies at 3%. 112, 221P, 864P.
- 401-591-852-951-1001-1011-1021.  
Thiocyanic acid, 2-(4-*tert*-butyl-2, 6-dichlorophenoxy)ethyl ester;  $(\text{CH}_3)_2\text{CC}_6\text{H}_3(\text{Cl})_2\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -(4-tertiary-Butyl-2, 6-dichlorophenoxy)-ethylthiocyanate).  
HT houseflies at 3%. 112, 221P.
- 401-591-852-951-1003-1021.  
Thiocyanic acid, 2-(2, 4-dichlorophenoxy)isopropyl ester;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OCH}_2\text{CH}(\text{SCN})\text{CH}_3$ . ( $\beta$ -Thiocyano-propyl ether of 2, 4-dichloro-phenol).  
Fly spray. 112, 208P.
- 401-591-852-951-1011-1021.  
Thiocyanic acid, 2-(2, 4-dichlorophenoxy)ethyl ester;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -(2, 4-Dichlorophenoxy)-ethyl thiocyanate).  
Fly spray. 112, 216P.
- 401-591-853-951-997-1021.  
Thiocyanic acid, 2-(2, 4, 6-trichlorophenoxy)hexyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OCH}(\text{C}_6\text{H}_5)\text{CH}_2\text{SCN}$ . ( $\beta$ -(2, 4, 6-Trichloro-phenoxy)-hexyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-853-951-1001-1021.  
Thiocyanic acid, 4-(2, 4, 5-trichlorophenoxy)butyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OCH}_2\text{CH}_2\text{SCN}$ . (Thiocyanic acid, 4-(2, 4, 5-trichlorophenoxy)-*n*-butyl thiocyanate).  
Fly spray. 112, 218P.
- 401-591-853-951-1003-1021.  
Thiocyanic acid, 3-(2, 4, 6-trichlorophenoxy)isopropyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OCH}_2\text{CH}(\text{CH}_3)\text{SCN}$ . ( $\beta$ -Thiocyano-propyl ether of 2, 4, 6-trichloro-phenol).  
Fly spray. 112, 208P.
- 401-591-853-951-1003-1021.  
Thiocyanic acid, 3-(2, 4, 6-trichlorophenoxy)propyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_6\text{H}_4\text{SCN}$ . ( $\gamma$ -Thiocyano-propyl ether of 2, 4, 6-trichloro-phenol;  $\gamma$ -(2, 4, 6-trichlorophenoxy)-propyl thiocyanate).  
HT houseflies at 3%. 112, 208P, 218P.
- 401-591-853-951-1011-1021.  
Thiocyanic acid, 2-(2, 4, 5-trichlorophenoxy)ethyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_6\text{H}_3\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 2, 4, 5-trichloro-phenol;  $\beta$ -(2, 4, 5-trichlorophenoxy)-ethyl thiocyanate).  
Fly spray. 112, 208P, 218P.
- 401-591-853-951-1011-1021.  
Thiocyanic acid, 2-(2, 4, 6-trichlorophenoxy)ethyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of 2, 4, 6-trichloro-phenol;  $\beta$ -(2, 4, 6-trichlorophenoxy)-ethyl thiocyanate).  
MT houseflies at 3%. 112, 208P, 218P.
- 401-591-853-1001-1021.  
Thiocyanic acid, 3-(2, 4, 6-trichlorophenoxy)-2-isobutyl ester;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OCH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . ( $\gamma$ -Thiocyano-isobutyl ether of 2, 4, 6-trichlorophenol).  
Fly spray. 112, 208P.
- 401-591-855-951-1011-1021.  
Thiocyanic acid, 2-(pentachlorophenoxy)ethyl ester;  $\text{Cl}_5\text{C}_6\text{OC}_6\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl ether of pentachlorophenol;  $\beta$ -(pentachloro-phenoxy)-ethyl thiocyanate).  
Fly spray. 112, 208P, 218P.
- 401-591-871-951-1011.  
Thiocyanic acid, 2-(*p*-iodophenoxy) ethyl ester;  $\text{NCSCH}_2\text{CH}_2\text{OC}_6\text{H}_4\text{I}$ . ( $\beta$ -Thiocyano-ethyl ether of 4-iodophenol;  $\beta$ -(4-iodophenoxy)-ethyl thiocyanate).  
110, 112, 208P, 218P.
- 401-591-881-951-1021-1027.  
Thiocyanic acid, halobiphenoxyalkyl esters;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{X})\text{OCnH}_{2n}\text{SCN}$ .  
The above formula where *n* represents an integer from 2 to 5, and *X* represents a member of the group consisting of chlorine, bromine, lower alkyl, and hydrogen.  
Fly spray. 112, 864P.
- 401-591-881-951-1021-1027.  
Thiocyanic acid, halophenoxyalkyl esters. (Thiocyano-alkyl ethers of a halo-phenol).  
Fly spray. 112, 208P.
- 401-591-881-951-1027.  
Thiocyanic acid, (alkylhalophenoxy)alkyl esters. (Thiocyano-alkyl, alkylhalogenomethoxy esters).  
Fly spray. 112, 220P.
- 401-591-887-951-1021-1027.  
Thiocyanic acid, halophenoxyalkyl esters;  $\text{XmC}_6\text{H}_4\text{OCnH}_{2n}\text{SCN}$ .  
The above formula wherein *X* represents halogen, *n* is an integer from 2 to 6, and *m* is an integer not greater than 5.  
Fly spray. 112, 218P.
- 401-591-951-951-999-1021.  
Thiocyanic acid, 5-(*o*-cyclohexylphenoxy)amyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_6\text{H}_5\text{SCN}$ . (Thiocyanic acid, *o*-cyclohexylphenoxyamyl ester; thiocyano-pentyl ether of ortho-cyclohexyl phenol).  
Fly spray. 112, 863P.
- 401-591-951-951-1001-1021.  
Thiocyanic acid, 3-(*o*-cyclohexylphenoxy)-2-isobutyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OCH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{SCN}$ . ( $\gamma$ -Thiocyano-isobutyl ether of ortho-cyclohexyl phenol).  
Fly Spray. 112, 863P.
- 401-591-951-951-1003-1021.  
Thiocyanic acid, 2-(2, 4, 6-trichlorophenoxy)isopropyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_2\text{OCH}_2\text{CH}(\text{CH}_3)\text{SCN}$ . ( $\beta$ -Thiocyano-propyl ether of ortho-cyclohexylphenol).  
Fly spray. 112, 863P.



401-591-951-961-1003-1021.

Thiocyanic acid, 3-(*o*-cyclohexylphenoxy)propyl ester;  $C_6H_{11}C_6H_4OC_6H_4SCN$ . ( $\gamma$ -Thiocyanopropyl ether of 3-cyclohexyl phenol;  $\gamma$ -(2-cyclohexylphenoxy)-propyl thiocyanate).

HT houseflies at 3%. 112, 221P, 863P.

401-591-951-961-1003-1021.

Thiocyanic acid, 3-(*p*-cyclohexylphenoxy)propyl ester;  $C_6H_{11}C_6H_4OC_6H_4SCN$ . ( $\gamma$ -Thiocyano-propyl ether of para-cyclohexyl phenol).

Fly spray. 112, 863P.

401-591-951-961-1011-1021.

Thiocyanic acid, 2-(*m*-cyclohexylphenoxy)ethyl ester;  $C_6H_{11}C_6H_4OC_6H_4SCN$ . ( $\beta$ -Thiocyano-ethyl ether of meta-cyclohexyl phenol).

Fly spray. 112, 863P.

401-591-951-961-1011-1021.

Thiocyanic acid, 2-(*o*-cyclohexylphenoxy)ethyl ester;  $C_6H_{11}C_6H_4OC_6H_4SCN$ . ( $\beta$ -(2-Cyclohexylphenoxy)-ethyl thiocyanate;  $\beta$ -thiocyano-ethyl ether of 2-cyclohexyl phenol).

HT houseflies at 3%. 112, 221P, 863P.

401-591-951-961-1011-1021.

Thiocyanic acid, 2-(*p*-cyclohexylphenoxy)ethyl ester;  $C_6H_{11}C_6H_4OC_6H_4SCN$ . ( $\beta$ -Thiocyano-ethyl ether of para-cyclo-hexyl phenol).

Fly spray. 112, 863P.

401-591-951-961-1011-1022.

Thiocyanic acid, 2-(4-cyclohexyl-*o*-toloxy)ethyl ester;  $C_6H_{11}C_6H_4(CH_3)OC_6H_4SCN$ . ( $\beta$ -(2-Methyl-4-cyclohexyl-phenoxy)-ethyl thiocyanate;  $\beta$ -thiocyano-ethyl ether of 2-methyl-4-cyclohexyl phenol).

Fly spray. 112, 219P, 221P.

401-591-951-1001-1011-1021.

Thiocyanic acid, 2-(4-*tert*-butylphenoxy)ethyl ester;  $(CH_3)_3CC_6H_4OC_6H_4SCN$ . ( $\beta$ -Thiocyano ethyl ether of 4-*tert*-butyl phenol;  $\beta$ -(4-*tert*-butylphenoxy)-ethyl thiocyanate).

HT houseflies at 3%. 112, 219P, 221P.

401-591-951-1001-1011-1022.

Thiocyanic acid, 2-(4-*tert*-butyl-*o*-toloxy)ethyl ester;  $(CH_3)_3CC_6H_4(CH_3)OC_6H_4SCN$ . ( $\beta$ -Thiocyanoethyl ether of 2-methyl-4-*tert*-butylphenol;  $\beta$ -(2-methyl-4-*tert*-butyl-phenoxy)-ethyl thiocyanate).

Fly spray 112, 219P, 221P.

401-591-951-1002-1003-1021.

Thiocyanic acid, 3-(2, 4-di-*tert*-butylphenoxy)propyl ester;  $[(CH_3)_3C]_2C_6H_3OC_6H_4SCN$ . ( $\gamma$ -(2, 4-Ditertiary-butyl-phenoxy)-propyl thiocyanate;  $\gamma$  thiocyano-propyl ether of 2, 4-di-*tert*-butyl phenol).

HT houseflies at 3%. 112, 219P, 221P.

401-591-951-1003-1011-1022.

Thiocyanic acid, 2-carvacroxyethyl ester;  $(CH_3)_2CHC_6H_4(CH_3)OC_6H_4SCN$ . ( $\beta$ -Thiocyano-ethyl ether of carvacrol;  $\beta$ -carvacroxy-ethyl thiocyanate).

HT houseflies at 3%. 112, 219P, 221P.

401-591-951-1003-1011-1022.

Thiocyanic acid, 2-thymoxyethyl ester;  $(CH_3)_2CHC_6H_4(CH_3)OC_6H_4SCN$ . ( $\beta$ -Thiocyano-ethyl ether of thymol;  $\beta$ -thymoxy-ethyl thiocyanate).

HT houseflies at 3%. 112, 219P, 221P.

401-591-951-1003-1021.

Thiocyanic acid, 3-phenoxypropyl ester;  $C_6H_5OC_3H_6SCN$ . ( $\gamma$ -Thiocyanopropyl phenyl ether).

100% T *Tetranychus telarius*, melon aphid, long-tailed mealybug, European bark beetle, 98% T *Aphis rumicis*, potato flea beetle, 81.7% T potato aphid, 35-78% T Mexican bean beetle, 10-42% T fall cankerworm, and 6.4% T black blister beetle; NT rose chafer. 648, 1178, 1432, 1484, 1487.

401-591-951-1011-1021.

Thiocyanic acid, 2-phenoxyethyl ester;  $C_6H_5OC_2H_4SCN$ .

T *Aphis rumicis* with slight injury to plant. 648, 1178.

401-591-951-1011-1022.

Thiocyanic acid, 2-toloxylethyl ester;  $CH_3C_6H_4OC_2H_4SCN$ .  $\beta$ -Thiocyano-ethyl ethers of common wood phenols).

HT houseflies at 3%. 112, 219P.

401-591-951-1011-1023.

Thiocyanic acid, 2-(dimethylphenoxy)ethyl ester;  $(CH_3)_2C_6H_4OC_2H_4SCN$ . ( $\beta$ -(Dimethyl-phenoxy)-ethyl thiocyanate;  $\beta$ -thiocyano-ethyl ethers of a xylol mixture).

Fly spray. 112, 219P, 221P.

401-591-951-1021-1045.

Thiocyanic acid, nuclear substituted phenoxyalkyl esters;  $RmC_6H_4(Xm)OCH_nH_nSCN$ . (Nuclear substituted phenoxyalkyl thiocyanates).

The above formula where R represents a hydrocarbon radical; X represents a member of the group consisting of alkyl, cycloalkyl, aralkyl, aryl, aryloxy, lower alkoxy, and alkenyl radicals, halogen and hydrogen; n represents an integer from 2 to 6; each m represents an integer not greater than 2; and the nuclear substituted phenoxy group contains at least 8 carbon atoms.

Fly spray. 112, 221P.

401-591-951-1027.

Thiocyanic acid, alkylphenoxyalkyl esters;  $ROCH_nH_nSCN$ .

The above formula where n represents an integer from 2 to 5 and R represents an alkylated phenyl radical containing at least 8 carbon atoms.

Fly spray. 112, 219P.

401-591-952-999-1021.

Thiocyanic acid, 5-(3-biphenyloxy)amyl ester;  $C_6H_5C_6H_4OC_5H_9SCN$ . (Thiocyanic acid, 3-phenylphenoxyethyl ester; reaction product of alkali metal thiocyanate of chloro-pentyl ether of 3-phenylphenol).

Fly spray. 112, 864P.

401-591-952-1001-1011-1021.

Thiocyanic acid, 2-(5-*tert*-butyl-2-biphenyloxy)ethyl ester;  $C_6H_5C_6H_4[C(CH_3)_3]OC_6H_4SCN$ . ( $\beta$ -Thiocyano-ethyl ether of 2-phenyl-4-*tert*-butyl phenol;  $\beta$ -(2-phenyl-4-*tert*-butyl-phenoxy)-ethyl-thiocyanate).

HT houseflies at 3%. 112, 221P, 864P.

401-591-952-1001-1021.

Thiocyanic acid, 3-(2-biphenyloxy)isobutyl ester;  $C_6H_5C_6H_4OCH_2CH(CH_3)CH_2SCN$ . (Thiocyanic acid, 3-(*o*-phenylphenoxy)-2-methyl-propyl ester; reaction product of alkali metal thiocyanate and  $\gamma$ -chloroisobutyl ether of 2-phenylphenol).

Fly spray. 112, 864P.

401-591-952-1001-1023.

Thiocyanic acid, 5-*tert*-butyl-2-phenylmethoxy benzyl ester;  $C_6H_5CH_2OC_6H_4[C(CH_3)_3]CH_2SCN$ .

Fly spray. 112, 862P.

401-591-952-1003-1012-1021.

Thiocyanic acid, 2-(5-isopropyl-2-phenylphenoxy)ethyl ester;  $(CH_3)_2CHC_6H_4(C_6H_5)OC_2H_4SCN$ . (Reaction product of alkali metal thiocyanate and  $\beta$ -chloro-ethyl-ether of 2-phenyl-4-isopropyl phenol).

Fly spray. 112, 864P.

401-591-952-1003-1021.

Thiocyanic acid, 2-(2-biphenyloxy)isopropyl ester;  $C_6H_5C_6H_4OCH_2CH(CH_3)SCN$ . (Thiocyanic acid, 2-(*o*-phenylphenoxy)-1-methylethyl ester; reaction product of alkali metal thiocyanate and  $\beta$ -chloro-propyl ether of 2-phenylphenol).

Fly spray. 112, 864P.

401-591-952-1003-1021.

Thiocyanic acid, 3-(3-biphenyloxy)propyl ester;  $C_6H_5C_6H_4OC_3H_6SCN$ . ( $\gamma$ -Thiocyano-propyl ether of 3-phenyl phenol;  $\gamma$ -(3-phenylphenoxy)-propyl thiocyanate).

MT houseflies at 3%. 112, 221P, 864P.

401-591-952-1003-1021.

Thiocyanic acid, 3-(2-biphenyloxy)propyl ester;  $C_6H_5C_6H_4OC_3H_6SCN$ . ( $\gamma$ -Thiocyano-propyl ether of 2-phenylphenol;  $\gamma$ -(2-phenyl-phenoxy)-propyl thiocyanate).

HT houseflies at 3%. 112, 221P, 864P.

401-591-952-1011-1021.

Thiocyanic acid, 2-(2-biphenyloxy)ethyl ester;  $C_6H_5C_6H_4OC_2H_4SCN$ . (Thiocyanic acid, 2-(*o*-phenylphenoxy)ethyl ester;  $\beta$ -thiocyano-ethyl ether of 2-phenyl phenol;  $\beta$ -(2-phenyl-phenoxy)-ethyl-thiocyanate).

MT houseflies at 3%. 112, 221P, 864P.

401-591-952-1011-1021.

Thiocyanic acid, 2-(3-biphenyloxy)ethyl ester;  $C_6H_5C_6H_4OC_2H_4SCN$ . ( $\beta$ -(3-Phenyl-phenoxy)-ethyl thiocyanate;  $\beta$ -thiocyano-ethyl ether of 3-phenylphenol).

HT houseflies at 3%. 112, 221P, 864P.

401-591-952-1011-1021.

Thiocyanic acid, 2-(4-biphenyloxy)ethyl ester;



- (Thiocyanic acid, 2-xenoxyethyl ester;  $\beta$ -thiocyanatoethyl ether of 4-phenyl phenol; reaction product of alkali metal thiocyanate and  $\beta$ -chloro-ethyl ether of 4-phenyl-phenol).  
Fly spray. 112, 864P.
- 401-591-952-1011-1023.  
Thiocyanic acid, 2-(4-phenyl-o-toloxyl)ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{CH}_2)\text{OC}_2\text{H}_4\text{SCN}$ . (Reaction product of alkali metal thiocyanate and  $\beta$ -bromo-ethyl ether of 2-methyl-4-phenylphenol).  
Fly spray. 112, 864P.
- 401-591-952-1023.  
Thiocyanic acid, phenylmethoxyphenyl ester, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{SCN}$ . (Thiocyanophenyl benzyl ether).  
Fly spray. 112, 692P.
- 401-591-952-1023.  
Thiocyanic acid,  $\alpha$ -phenoxy-p-tolyl ester;  $\text{C}_6\text{H}_5\text{OCH}_2\text{C}_6\text{H}_4\text{SCN}$ . (4-Thiocyanomethylphenyl phenyl ether).  
52% T mealy bugs and 99% T small mealy bugs on Coleus. 262P.
- 401-591-952-1023.  
Thiocyanic acid, p-phenylmethoxybenzyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_2\text{SCN}$ . (Thiocyanic acid, 4-(phenylmethoxy)benzyl ester).  
Fly spray. 112, 692P.
- 401-591-952-1023.  
Thiocyanic acid, phenylmethoxybenzyl ester, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_2\text{SCN}$ . (Thiocyanic acid, phenylmethoxyphenylmethyl ester; thiocyanomethyl phenyl benzyl ether).  
Fly spray. 112, 692P.
- 401-591-952-1023.  
Thiocyanic acid, phenylalkoxybenzyl ester. (A phenyl benzyl ether having a phenyl substituent containing a thiocyanate group).  
Fly spray. 112, 692P.
- 401-591-952-1023.  
Thiocyanic acid, 3-phenyl-4-phenylmethoxybenzyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{C}_6\text{H}_4(\text{CH}_2)\text{CH}_2\text{SCN}$ .  
Fly spray. 112, 692P.
- 401-591-951-1021-1027.  
Thiocyanic acid, cyclohexylphenoxy alkyl esters. (Thiocyanate-alkyl ethers of cyclohexylphenol).  
Fly spray. 112, 863P.
- 401-591-1001-1011-1021.  
Thiocyanic acid, 2-butoxyethyl ester;  $\text{C}_4\text{H}_9\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyanatoethyl butyl ether; 2-butoxyethyl thiocyanate).  
Fly spray. 112, 678P, 1032P, 1178, 1203P, 1204P.
- 401-591-1003-1011-1021.  
Thiocyanic acid, 2-propoxyethyl ester;  $\text{C}_3\text{H}_7\text{OCH}_2\text{CH}_2\text{SCN}$ . (Thiocyanic acid ester of monopropyl ether of ethylene glycol).  
Fly spray. 112, 1032P.
- 401-591-1011-1023.  
Thiocyanic acid, 2-methoxyethyl ester;  $\text{CH}_3\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyanatoethyl methyl ether).  
T *Aphis rumicis* and houseflies. 112, 648, 1032P, 1178.
- 401-591-1012-1021.  
Thiocyanic acid, 2-ethoxyethyl ester;  $\text{C}_2\text{H}_5\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyanatoethyl ethyl ether).  
T *Aphis rumicis* and houseflies. 112, 648, 1032P, 1178.
- 401-592-841-851-951-993-1012-1021.  
Thiocyanic acid, 2-[2-(2-bromo-4-chloro-6-octylphenoxy)ethoxy]ethyl ester;  $\text{C}_8\text{H}_{17}\text{C}_6\text{H}_3(\text{Cl})(\text{Br})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-n-octyl-4-chloro-6-bromo-phenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-841-851-952-1012-1021.  
Thiocyanic acid, 2-[2-(3-bromo-5-chloro-4-biphenyloxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Br})(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(3-Chloro-5-bromo-4-xenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-841-852-951-1012-1021.  
Thiocyanic acid, 2-[2-(2-bromo-4, 6-dichlorophenoxy)ethoxy]ethyl ester;  $(\text{Cl})_2(\text{Br})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Bromo-4, 6-dichlorophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 217P.
- 401-592-841-853-951-1002-1021.  
Thiocyanic acid, 2-[2-(4-bromo-2, 3, 6-trichlorophenoxy)butoxy]-1-ethylethyl ester;  $(\text{Cl})_3(\text{Br})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{CH}_2\text{CH}_3$ . ( $\beta$ -(2, 3, 6-trichloro-4-bromophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 217P.
- 401-592-841-851-1000-1012-1021.  
Thiocyanic acid, 2-[2-(3-bromo-4, 6-di-*tert*-amylphenoxy)ethoxy]ethyl ester;  $[\text{C}_6\text{H}_4(\text{CH}_2)_3\text{C}(\text{CH}_3)_3]_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2, 4-Ditertiary-amyl-6-bromo-phenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-841-951-1003-1011-1023.  
Thiocyanic acid, 3-[3-(2-bromo-5-methylphenoxy)ethoxy]propyl ester;  $\text{CH}_3\text{C}_6\text{H}_4(\text{Br})\text{OC}_2\text{H}_4\text{OC}_3\text{H}_6\text{SCN}$ . [( $\beta$ -3-Methyl-6-bromo-phenoxy-ethyl) ( $\gamma$ -thiocyanate-propyl) ether].  
Fly spray. 112, 224P.
- 401-592-841-951-1003-1012-1023.  
Thiocyanic acid, 2-[2-(4-bromocyclohexyloxy)ethoxy]ethyl ester;  $(\text{CH}_2)_5\text{CHC}_6\text{H}_4(\text{Br})(\text{CH}_2)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Methyl-5-isopropyl-4-bromo-phenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-841-951-1004-1012-1021.  
Thiocyanic acid, 2-[2-(4-bromo-2, 5-diisopropylphenoxy)ethoxy]propyl ester;  $[(\text{CH}_3)_2\text{CH}]_2\text{C}_6\text{H}_3(\text{Br})\text{OC}_2\text{H}_4\text{OC}_3\text{H}_7\text{SCN}$ . ( $\beta$ -(2, 5-Diisopropyl-4-bromophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-841-951-1004-1021.  
Thiocyanic acid, 3-[3-(2-bromo-4-isopropylphenoxy)propoxy]propyl ester;  $(\text{CH}_3)_2\text{CHC}_6\text{H}_4(\text{Br})\text{OC}_3\text{H}_7\text{OC}_3\text{H}_7\text{SCN}$ . ( $\gamma$ -(4-Isopropyl-2-bromo-phenoxy)- $\gamma'$ -thiocyanate-dipropyl ether).  
Fly spray. 112, 224P.
- 401-592-841-951-1012-1023.  
Thiocyanic acid, 2-[2-(4-bromo-o-toloxyl)ethoxy]ethyl ester;  $\text{CH}_3\text{C}_6\text{H}_4(\text{Br})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Methyl-4-bromophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-842-951-1004-1021.  
Thiocyanic acid, 3-[3-(2, 4-dibromophenoxy)propoxy]propyl ester;  $\text{Br}_2\text{C}_6\text{H}_3\text{OC}_3\text{H}_7\text{OC}_3\text{H}_7\text{SCN}$ . ( $\gamma$ -(2, 4-Dibromophenoxy)- $\gamma'$ -thiocyanate-dipropyl ether).  
Fly spray. 112, 217P.
- 401-592-842-952-1003-1011-1021.  
Thiocyanic acid, 3-[2-(3, 5-dibromo-2-biphenyloxy)ethoxy]propyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{Br})_2\text{OC}_2\text{H}_4\text{OC}_3\text{H}_7\text{SCN}$ . [( $\beta$ -3, 5-Dibromo-2-xenoxy-ethyl) ( $\gamma'$ -thiocyanate-propyl) ether].  
Fly spray. 112, 223P.
- 401-592-843-951-1012-1021.  
Thiocyanic acid, 2-[2-(2, 4, 6-tribromophenoxy)ethoxy]ethyl ester;  $\text{Br}_3\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2, 4, 6-Tribromophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 217P.
- 401-592-844-952-1012-1021.  
Thiocyanic acid, 2-[2-(2, 4, 5, 6-tetrabromo-3-biphenyloxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_2(\text{Br})_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(3-phenyl-2, 4, 5, 6-tetrabromophenoxy)ethoxy]ethyl ester;  $\beta$ -(2, 4, 5, 6-tetrabromo-3-xenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-851-951-961-1012-1021.  
Thiocyanic acid, 2-[2-(2-chloro-6-cyclohexylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Cyclohexyl-6-chlorophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-851-951-985-1012-1021.  
Thiocyanic acid, 2-[2-(3-chloro-4-hexadecylphenoxy)ethoxy]ethyl ester;  $\text{C}_{16}\text{H}_{33}\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(4-Hexadecyl-6-chlorophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-851-951-998-1011-1021.  
Thiocyanic acid, (2-chloro-4-ethylphenoxy)hexoxyhexyl ester;  $\text{C}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_6\text{H}_{13}\text{SCN}$ . (4-Ethyl-6-chloro-phenoxy-hexyl) (thiocyanate-hexyl) ether).  
Fly spray. 112, 224P.
- 401-592-851-951-1001-1012-1021.  
Thiocyanic acid, 2-[2-(4-*tert*-butyl-2-chlorophenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_3\text{CC}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-(4-*tert*-butyl-2-chlorophenoxy)- $\beta'$ -thiocyanate-diethyl ether).  
Fly spray. 112, 224P.

- OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(4-*tert*-Butyl-2-chloro-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-851-951-1002-1004-1021.  
Thiocyanic acid, 2-[3-(3-chloro-2, 4, 6-tri-*tert*-butylphenoxy)propoxy]propyl ester; [(CH<sub>3</sub>)<sub>3</sub>C]C<sub>6</sub>H<sub>3</sub>(Cl)-OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2, 4, 6-Tertiary-butyl-3-chloro-phenoxy)- $\beta'$ -thiocyano-dipropyl ether).  
Fly spray. 112, 224P.
- 401-592-851-951-1002-1022.  
Thiocyanic acid, 4-[4-(3-methyl-4-chlorophenoxy)butoxy]butyl ester; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. (Thiocyanic acid, 4-[4-(4-chloro-*m*-toloxy)butoxy]butyl ester; 4-(3-Methyl-4-chloro-phenoxy)- $\Delta'$ -thiocyano-dibutyl ether).  
Fly spray. 112, 224P.
- 401-592-851-951-1003-1012-1022.  
Thiocyanic acid, 2-[2-(4-chloro-2-isopropyl-5-methylphenoxy)ethoxy]ethyl ester; (CH<sub>3</sub>)<sub>2</sub>CHC<sub>6</sub>H<sub>3</sub>(Cl)-(CH<sub>3</sub>)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2-Isopropyl-5-methyl-4-chloro-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-851-951-1012-1021.  
Thiocyanic acid, 2-[2-(*p*-chlorophenoxy)ethoxy]ethyl ester; ClC<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -Thiocyano- $\beta'$ -(*p*-chlorophenoxy) diethyl ether).  
Fly spray. 112, 1032P.
- 401-592-851-951-1012-1022.  
Thiocyanic acid, 2-[2-(*o*-chlorophenoxy)ethoxy]ethyl ester; ClC<sub>6</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -Thiocyano- $\beta'$ -(*o*-chlorophenoxy) diethyl ether).  
Fly spray. 112, 1032P.
- 401-592-851-951-1012-1024.  
Thiocyanic acid, 2-[2-(2-chloro-3, 4, 6-trimethylphenoxy)ethoxy]ethyl ester; (CH<sub>3</sub>)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2, 4, 5-Tri-methyl-6-chloro-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-851-951-1012-1025.  
Thiocyanic acid, 2-[2-(chlorotetramethylphenoxy)ethoxy]ethyl ester, CU; (CH<sub>3</sub>)<sub>4</sub>C<sub>6</sub>(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(Tetra-methyl-chloro-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-851-952-1004-1021.  
Thiocyanic acid, 3-[3-(3-chloro-2-phenylphenoxy)propoxy]propyl ester, CU; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\gamma$ -(3-Chloro-2-xenoxy)- $\gamma'$ -thiocyano-dipropyl ether).  
Fly spray. 112, 223P.
- 401-592-851-952-1004-1021.  
Thiocyanic acid, 3-[3-(3-chloro-4-phenylphenoxy)propoxy]propyl ester; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>3</sub>(Cl)OCH(CH<sub>3</sub>)CH<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(3-Chloro-4-xenoxy)- $\gamma'$ -thiocyano-dipropyl ether).  
Fly spray. 112, 223P.
- 401-592-851-952-1012-1021.  
Thiocyanic acid, 2-[2-(3-chloro-4-phenylphenoxy)ethoxy]ethyl ester; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(3-Chloro-4-xenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-851-952-1012-1022.  
Thiocyanic acid, 2-[2-(5-chloro-3-methyl-2-phenylphenoxy)ethoxy]ethyl ester; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>)(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(3-Methyl-5-chloro-2-xenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-851-1001-1012-1021.  
Thiocyanic acid, 2-[1-(2-chloroethoxy)-2-methylpropoxy]ethyl ester; (CH<sub>3</sub>)<sub>2</sub>CHCH(OC<sub>2</sub>H<sub>4</sub>Cl)OC<sub>2</sub>H<sub>4</sub>SCN. ( $\alpha$ -( $\beta$ -Thiocyanoethoxy)- $\alpha'$ -( $\beta'$ -chloroethoxy)- $\beta$ -methylpropane).  
Fly spray. 112, 1032P.
- 401-592-852-951-1001-1011-1021.  
Thiocyanic acid, 4-[2-(2, 5-dichlorophenoxy)ethoxy]butyl ester; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. [( $\beta$ -2, 5-Dichlorophenoxy)ethyl ( $\Delta'$ -thiocyano-butyl) ether].  
Fly spray. 112, 217P.
- 401-592-852-951-1001-1012-1021.  
Thiocyanic acid, 2-[2-(4-*tert*-butyl-2, 6-dichlorophenoxy)ethoxy]ethyl ester; (CH<sub>3</sub>)<sub>3</sub>CC<sub>6</sub>H<sub>3</sub>(Cl)<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(4-*tert*-Butyl-2, 6-dichlorophenoxy)- $\beta'$ -thiocyano-diethyl ether).  
HT houseflies at 3%, 112, 224P.
- 401-592-852-951-1012-1022.  
Thiocyanic acid, 2-[2-(4, 6-dichloro-2-methylphenoxy)ethoxy]ethyl ester; CH<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(Cl)<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. (Thiocyanic acid, 2-[2-(4, 6-dichloro-*o*-toloxy)ethoxy]ethyl ester;  $\beta$ -(2-methyl-4, 6-dichloro-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-852-951-1012-1024.  
Thiocyanic acid, 2-[2-(2, 5-dichloro-3, 4, 6-trimethylphenoxy)ethoxy]ethyl ester; (CH<sub>3</sub>)<sub>3</sub>C<sub>6</sub>(Cl)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2, 4, 5-Trimethyl-3, 6-dichlorophenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-853-951-998-1021.  
Thiocyanic acid, 2-[2-(2, 4, 5-trichlorophenoxy)-2-butyloxy]1-butylethyl ester; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>OCH(C<sub>4</sub>H<sub>9</sub>)CH<sub>2</sub>OCCH<sub>3</sub>(C<sub>4</sub>H<sub>9</sub>)SCN. (Thiocyanic acid, 2-[2-(2, 4, 5-trichlorophenoxy)hexoxymethyl]amyl ester;  $\beta$ -(2, 4, 5-trichlorophenoxy)- $\beta'$ -thiocyano-dihexyl ether).  
Fly spray. 112, 217P.
- 401-592-853-951-1000-1021.  
Thiocyanic acid, 5-[5-(2, 4, 6-trichlorophenoxy)amoxy]amyl ester; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. (Thiocyanic acid, 2, 4, 6-trichlorophenoxyamoxymethyl ester; [(2, 4, 6-trichlorophenoxy-amyl) (thiocyano-amyl) ether].  
Fly spray. 112, 217P.
- 401-592-853-951-1001-1012-1021.  
Thiocyanic acid, 2-[2-(*tert*-butyl-3, 4, 6-trichlorophenoxy)ethoxy]ethyl ester; (CH<sub>3</sub>)<sub>3</sub>CC<sub>6</sub>H<sub>3</sub>(Cl)<sub>3</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2-*tert*-Butyl-3, 4, 6-trichlorophenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-853-951-1003-1011-1021.  
Thiocyanic acid, 3-[2-(2, 4, 6-trichlorophenoxy)ethoxy]propyl ester; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. [( $\beta$ -2, 4, 6-Trichlorophenoxy-ethyl) ( $\gamma'$ -thiocyano-propyl) ether].  
Fly spray. 112, 217P.
- 401-592-853-951-1012-1021.  
Thiocyanic acid, 2-[2-(2, 4, 6-trichlorophenoxy)ethoxy]ethyl ester; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2, 4, 6-Trichlorophenoxy)- $\beta'$ -thiocyano-diethyl ether).  
HT houseflies at 3%, 112, 217P.
- 401-592-853-952-1012-1021.  
Thiocyanic acid, 2-[2-(2, 3, 5-trichloro-6-phenylphenoxy)ethoxy]ethyl ester; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>3</sub>(Cl)<sub>3</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(3, 5, 6-Trichloro-2-xenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-854-951-1012-1021.  
Thiocyanic acid, 2-[2-(2, 3, 4, 6-tetrachlorophenoxy)ethoxy]ethyl ester; Cl<sub>4</sub>C<sub>6</sub>HOC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2, 4, 5, 6-Tetrachlorophenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 217P.
- 401-592-854-951-1012-1022.  
Thiocyanic acid, 2-[2-(3-methyl-2, 4, 5, 6-tetrachlorophenoxy)ethoxy]ethyl ester; CH<sub>3</sub>C<sub>6</sub>(Cl)<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(3-Methyl-2, 4, 5, 6-tetra-chloro-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 224P.
- 401-592-855-951-1012-1021.  
Thiocyanic acid, 2-[2-(2, 3, 4, 5, 6-pentachlorophenoxy)ethoxy]ethyl ester; Cl<sub>5</sub>C<sub>6</sub>OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. (Thiocyanic acid, 2-[2-(pentachlorophenoxy)ethoxy]ethyl ester;  $\beta$ -(pentachlorophenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 217P.
- 401-592-871-951-961-1004-1021.  
Thiocyanic acid, 3-[3-(4-cyclohexyl-2-iodophenoxy)propoxy]propyl ester; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>3</sub>(I)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\gamma$ -(2-Iodo-4-cyclohexyl-phenoxy)- $\gamma'$ -thiocyano-dipropyl ether). 110, 112, 223P.
- 401-592-871-951-967-1012-1021.  
Thiocyanic acid, 2-[2-(4-*tert*-hexyl-2-iodophenoxy)ethoxy]ethyl ester; C<sub>6</sub>H<sub>13</sub>C<sub>6</sub>H<sub>3</sub>(I)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(2-Iodo-4-*tert*-hexyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether). 110, 112, 224P.
- 401-592-871-952-1012.  
Thiocyanic acid, 2-[2-(3-iodo-2-phenylphenoxy)ethoxy]ethyl ester; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>3</sub>(I)OC<sub>2</sub>H<sub>4</sub>OC<sub>2</sub>H<sub>4</sub>SCN. ( $\beta$ -(3-Iodo-2-xenoxy)- $\beta'$ -thiocyano-diethyl ether). 110, 223P.

## 401-592-872-951-1012.

Thiocyanic acid, 2-[2-(2, 4-dihydroxyphenoxy)ethoxy]ethyl ester;  $\text{I}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[2, 4-Dihydroxyphenoxy]- $\beta'$ -thiocyano-diethyl ether). 110, 112, 217P.

## 401-592-881-951-1021-1027.

Thiocyanic acid, halophenoxyalkoxy alkyl esters;  $(\text{C}_6\text{H}_5\text{n}+1)\text{aC}_6\text{H}_5(\text{Xb})\text{ORORSCN}$ . (Monohalophenoxy alkyl thiocyanalkyl esters).

The above formula wherein R represents an alkylene radical, X represents halogen, n, a, and b are integers, and the sum of a and b is not greater than 5.

Fly spray. 112, 224P.

## 401-592-887-951-975-1021-1027.

Thiocyanic acid, phenoxyalkoxyalkyl ester, substituted;  $\text{XnC}_6\text{H}_5(\text{Y})\text{ORORSCN}$ .

The above formula wherein R represents an alkylene radical; Y represents a carboxylic group containing 6 carbon atoms; X represents a member of the group consisting of lower alkyl, halogen and hydrogen; and n is an integer not greater than 4.

Fly spray. 112, 223P.

## 401-592-887-951-1021-1027-1033.

Thiocyanic acid, polyhalophenoxy alkyleneoxy alkyl esters;  $\text{XnC}_6\text{H}_4\text{ORORSCN}$ . (Polyhalophenoxy alkylthiocyanalkyl ethers).

The above formula wherein R represents an alkylene radical, X represents halogen, and n is an integer from 3 to 5.

Fly spray. 112, 217P.

## 401-592-910-1012-1021.

Thiocyanic acid, 2-(2-phenanthroxyethoxy)ethyl ester;  $\text{C}_{12}\text{H}_{10}\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Phenanthroxy- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 222P.

## 401-592-924-1012-1021.

Thiocyanic acid, 2-(2-naphthoxyethoxy)ethyl ester;  $\text{C}_{10}\text{H}_7\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Naphthoxy- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 222P.

## 401-592-924-1012-1021.

Thiocyanic acid, 2-(2-naphthenoxy)ethyl ester;  $\text{RCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{aSCN}$ . ( $\beta$ -Thiocyano- $\beta'$ -naphthenoxy-diethyl ether).

The above formula wherein R represents naphthenoxy radicals.

Fly spray. 112, 1032P.

## 401-592-951-951-993-1012-1021.

Thiocyanic acid, 2-[2-(4-cyclohexyl-2-n-octylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{C}_8\text{H}_{17})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[2-(2-n-Octyl-4-cyclohexyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether]).

Fly spray. 112, 223P.

## 401-592-951-951-998-1021.

Thiocyanic acid, 6-[6-(4-cyclohexylphenoxy)hexoxy]hexyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, p-cyclohexylphenoxyhexoxyhexyl ester; (4-cyclohexylphenoxyhexyl) (thiocyanohexyl) ether).

Fly spray. 112, 223P.

## 401-592-951-951-1000-1021.

Thiocyanic acid, 5-[5-(2-cyclohexylphenoxy)amoxy]amyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, o-cyclohexylphenoxyamoxamyl ester; (2-cyclohexyl-phenoxy-amyl) (thiocyano-amyl) ether).

Fly spray. 112, 223P.

## 401-592-951-951-1004-1021.

Thiocyanic acid, 3-[3-(4-cyclohexyl-2-isopropylphenoxy)propoxy]propyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4[\text{CH}(\text{CH}_3)_2]\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\gamma$ -[2-Isopropyl-4-cyclohexylphenoxy] -  $\gamma'$ -thiocyano-dipropyl ether).

Fly spray. 112, 223P.

## 401-592-951-951-1012-1021.

Thiocyanic acid, 2-[2-(3-cyclohexylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(m-cyclohexylphenoxy)ethoxy]ethyl ester;  $\beta$ -(3-cyclohexyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 223P.

## 401-592-951-951-1012-1021.

Thiocyanic acid, 2-[2-(2-cyclohexylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(o-cyclohexylphenoxy)ethoxy]ethyl ester;  $\beta$ -(2-cyclohexyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 222P, 223P.

## 401-592-951-951-1012-1021.

Thiocyanic acid, 2-[2-(4-cyclohexylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(p-cyclohexylphenoxy)ethoxy]ethyl ester;  $\beta$ -(4-cyclohexyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 223P.

## 401-592-951-951-1012-1023.

Thiocyanic acid, 2-[2-(4-cyclohexyl-2, 6-dimethylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{CH}_3)_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[2, 6-Dimethyl-4-cyclohexylphenoxy]- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 223P.

## 401-592-951-951-1012-1024.

Thiocyanic acid, 2-[2-(3-cyclohexyl-3, 4, 6-trimethylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{CH}_3)_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[3, 4, 6-Trimethyl-3-cyclohexylphenoxy]- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 223P.

## 401-592-951-951-1012-1021.

Thiocyanic acid, 2-[2-(1, 1, 3, 3-tetramethylbutylphenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_3\text{CCH}_2\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-a,a,g,g-tetramethylbutylphenoxy]ethoxy]-ethyl ester;  $\beta$ -thiocyano -  $\beta'$ -(a,a,g,g-tetramethylbutyl-phenoxy)-diethyl ether).

Fly spray. 112, 1032P.

## 401-592-951-951-1012-1021.

Thiocyanic acid, 2-[2-(2-n-octylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[2-n-Octyl-phenoxy]- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 222P.

## 401-592-951-951-1012-1022.

Thiocyanic acid, 2-[2-(4-n-octyl-2-methylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{CH}_3)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(4-n-octyl-o-toloxyl)phenoxy]ethyl ester;  $\beta$ -(2-methyl-4-n-octyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether).

Fly spray. 112, 225P.

## 401-592-951-951-1011-1011-1021.

Thiocyanic acid, 4-[2-(4-n-hexylphenoxy)ethoxy]butyl ester;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[4-n-Hexyl-phenoxy-ethyl] ( $\Delta'$ -thiocyano-butyl) ether).

Fly spray. 112, 222P.

## 401-592-951-951-1003-1022.

Thiocyanic acid, 6-[6-(2-isopropyl-5-methylphenoxy)hexoxy]hexyl ester;  $(\text{CH}_3)_2\text{CHC}_6\text{H}_3(\text{CH}_3)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-(2-thymoxyhexoxy)hexyl ester; (2-propyl-5-methyl-phenoxy-hexyl) (thiocyanohexyl) ether).

Fly spray. 112, 225P.

## 401-592-951-1000-1022.

Thiocyanic acid, 5-[5-(2-methylphenoxy)amoxyl]amyl ester;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, o-toloxamoxamyl ester; (2-methyl-phenoxy)-thiocyanodiamyl ester).

Fly spray. 112, 222P.

## 401-592-951-1000-1023.

Thiocyanic acid, 5-[5-(3, 5-dimethylphenoxy)amoxyl]amyl ester;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, (3, 5-dimethylphenoxy)amoxamyl ester; (3, 5-dimethyl-phenoxy-amyl) (thiocyano-amyl) ether; (3, 5-dimethyl-phenoxy)-thiocyano-diamyl ether).

Fly spray. 112, 222P.

## 401-592-951-1001-1011-1025.

Thiocyanic acid, 4-[2-(tetramethylphenoxy)ethoxy]butyl ester;  $(\text{CH}_3)_4\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-(tetramethylphenoxy)ethoxybutyl ester; ( $\beta$ -tetra-methyl-phenoxy-ethyl) (thiocyano-butyl) ether).

Fly spray. 112, 225P.

## 401-592-951-1001-1012-1021.

Thiocyanic acid, 2-[2-(4-tert-butylphenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_3\text{CC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -[4-tert-Butyl-phenoxy]- $\beta'$ -thiocyano-diethyl ether).

90% T household. 112, 222P.

## 401-592-951-1002-1003-1021.

Thiocyanic acid, 4-[4-(2-propylphenoxy)butoxy]butyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 4-[4-(o-propylphenoxy)butoxy]butyl ester;  $\Delta$ -(2-propyl-phenoxy)- $\Delta'$ -thiocyano-dibutyl ether).

Fly spray. 112, 222P.

## 401-592-951-1002-1004-1021.

Thiocyanic acid, 3-[3-(2, 4, 6-tri-tert-butylphenoxy)propoxy]propyl ester;  $[(\text{CH}_3)_3\text{C}]_3\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ .

- H<sub>3</sub>SCN.** ( $\gamma$ -(2, 4, 6-Tertiary-butyl-phenoxy)- $\gamma'$ -thiocyano-dipropyl ether).  
Fly spray. 112, 223P.
- 401-592-951-1003-1011-1022-1030.  
Thiocyanic acid, 2-[3-methoxy-4-(2-propene)-phenoxy]ethyl ester;  $\text{CH}_3\text{:CHCH}_2\text{C}_6\text{H}_4(\text{OC}_6\text{H}_5)\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-eugenoxethyl ester;  $\beta$ -eugenoxo-ethyl thiocyanate).  
HT houseflies at 3%. 112, 221P.
- 401-592-951-1003-1012-1022.  
Thiocyanic acid, 2-[2-(3-methyl-6-propylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_7\text{C}_6\text{H}_4(\text{CH}_3)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(6-propyl-*m*-toloxy)ethoxy]ethyl ester;  $\beta$ -(2-propyl-5-methyl-phenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 225P.
- 401-592-951-1003-1012-1022.  
Thiocyanic acid, 2-[2-(2-methyl-5-isopropylphenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_2\text{CHC}_6\text{H}_4(\text{CH}_3)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-(2-carvaxoxyethoxy)ethyl ester;  $\beta$ -(2-methyl-5-isopropyl-phenoxy)- $\beta'$ -thiocyano diethyl ether).  
HT houseflies at 3%. 112, 222P, 225P.
- 401-592-951-1003-1012-1022.  
Thiocyanic acid, 2-[2-(2-methyl-4-*tert*-butylphenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_2\text{CC}_6\text{H}_4(\text{CH}_3)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(4-isopropyl-*o*-toloxy)ethoxy]ethyl ester;  $\beta$ -(2-methyl-4-*tert*-butyl-phenoxo)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 225P.
- 401-592-951-1004-1021.  
Thiocyanic acid, 3-[2-(2, 5-diisopropylphenoxy)propoxy]propyl ester;  $[(\text{CH}_3)_2\text{CH}]_2\text{C}_6\text{H}_3\text{OCH}(\text{CH}_3)\text{CH}_2\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2, 5-Isopropyl-phenoxo)- $\gamma'$ -thiocyano-dipropyl ether).  
Fly spray. 112, 225P.
- 401-592-951-1004-1021-1030.  
Thiocyanic acid, 3-[3-(4-(2-propene)phenoxy)propoxy]propyl ester;  $\text{CH}_2\text{:CHCH}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 3-[3-(*o*-allylphenoxy)propoxy]propyl ester;  $\gamma$ -(4-allyl-phenoxo)- $\gamma'$ -thiocyano dipropyl ether).  
Fly spray. 112, 222P.
- 401-592-951-1012-1021.  
Thiocyanic acid, 2-[2-(phenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Phenoxy- $\beta'$ -thiocyano-diethyl ether;  $\beta$ -thiocyano- $\beta'$ -phenoxydiethyl ether).  
MT houseflies at 3%. 112, 222P, 1032P.
- 401-592-951-1012-1021.  
Thiocyanic acid, 2-[2-(2-ethylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(*o*-ethylphenoxy)ethoxy]ethyl ester;  $\beta$ -(2-ethyl-phenoxo)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 222P.
- 401-592-951-1012-1022.  
Thiocyanic acid, 2-[2-(methylphenoxy)ethoxy]ethyl ester;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano- $\beta'$ -cresoxydiethyl ether; thiocyanic acid, 2-(2-toloxo-ethoxy)ethyl ester).  
Fly spray. 112, 1032P.
- 401-592-951-1012-1025.  
Thiocyanic acid, 2-[2-(2, 3, 4, 5, 6-pentamethyl-phenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_5\text{C}_6\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-[2-(pentamethylphenoxy)ethoxy]ethyl ester;  $\beta$ -(penta-methyl-phenoxo)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 225P.
- 401-592-951-1027.  
Thiocyanic acid, alkylphenoxy alkylalkoxy alkyl esters;  $\text{XnC}_6\text{H}_4\text{ORORSCN}$ .  
The above formula wherein R represents an alkylene radical, X represents an alkyl group from 1 to 8 carbon atoms, and n is an integer from 2 to 5.  
Fly spray. 112, 225P.
- 401-592-951-1027.  
Thiocyanic acid, alkylphenoxy alkylalkoxy alkyl esters;  $\text{ROCNH}_2\text{OCnH}_2\text{SCN}$ .  
The above formula wherein R represents an aryl group and each n is an integer.  
Fly spray. 412, 222P.
- 401-592-952-1001-1011-1021.  
Thiocyanic acid, 4-[2-(3-phenylphenoxy)ethoxy]butyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 4-[2-(*o*-phenylphenoxy)ethoxy]butyl ester; ( $\beta$ -2-xenoxy-ethyl) ( $\Delta'$ -thiocyano-butyl) ether).  
Fly spray. 112, 223P.
- 401-592-952-1001-1012-1021.  
Thiocyanic acid, 2-[2-(3-*tert*-butyl-4-phenylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4[\text{C}(\text{CH}_3)_3]\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(3-*tert*-Butyl-4-xenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-952-1001-1012-1021.  
Thiocyanic acid, 2-[2-(5-*tert*-butyl-2-phenylphenoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4[\text{C}(\text{CH}_3)_3]\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(5-*tert*-Butyl-2-xenoxy)- $\beta'$ -thiocyano diethyl ether).  
Fly spray. 112, 223P.
- 401-592-952-1002-1021.  
Thiocyanic acid, 4-[4-(3-phenylphenoxy)butoxy]butyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 4-(*m*-phenylphenoxy)butoxy]butyl ester; (3-xenoxy-butyl) ( $\Delta'$ -thiocyano-butyl) ether).  
Fly spray. 112, 223P.
- 401-592-952-1002-1022.  
Thiocyanic acid, 2-[2-(4-benzylphenoxy)-2-ethyl-ethoxy]-1-ethyl ethyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OCH}(\text{C}_6\text{H}_5)\text{CH}_2\text{OCH}_2\text{CH}(\text{C}_6\text{H}_5)\text{SCN}$ . (Thiocyanic acid, 2-[2-(*p*-benzylphenoxy)butoxy]-1-ethyl ethyl ester;  $\beta$ -(4-benzyl-phenoxo)- $\beta'$ -thiocyanodibutyl ether).  
Fly spray. 112, 222P.
- 401-592-952-1003-1012-1021.  
Thiocyanic acid, 2-[2-(4-isopropyl-2-phenylphenoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_2\text{CHC}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(2-Phenyl-4-isopropyl-phenoxo)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 222P.
- 401-592-952-1004-1012-1021.  
Thiocyanic acid, 2-[2-(3, 5-diisopropyl-2-phenylphenoxy)ethoxy]ethyl ester;  $[(\text{CH}_3)_2\text{CH}]_2\text{C}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(3, 5-Diisopropyl-2-xenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-952-1012-1021.  
Thiocyanic acid, 2-[2-(*m*-biphenylloxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -(3-Xenoxy)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 223P.
- 401-592-952-1012-1021.  
Thiocyanic acid, 2-[2-(*o*-biphenylloxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . Thiocyanic acid, 2-[2-(*o*-phenylphenoxy)ethoxy]ethyl ester;  $\beta$ -(2-xenoxy)- $\beta'$ -thiocyano-diethyl ether;  $\beta$ -(2-phenyl-phenoxo)- $\beta'$ -thiocyano-diethyl ether).  
MT houseflies at 3%. 112, 222P, 223P.
- 401-592-952-1012-1021.  
Thiocyanic acid, 2-[2-(*p*-biphenylloxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanic acid, 2-(2-xenoxyethoxy)ethyl ester;  $\beta$ -(4-xenoxy)- $\beta'$ -thiocyano-diethyl ether;  $\beta$ -(4-phenyl-phenoxo)- $\beta'$ -thiocyano-diethyl ether).  
Fly spray. 112, 222P, 223P.
- 401-592-1001-1012-1021.  
Thiocyanic acid, 2-[2-(butoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Butoxy- $\beta'$ -thiocyanodietylether; 2-(2'-butoxyethoxy)ethyl thiocyanate; "Lethane 384")  
HT several species of insects. 62, 112, 292, 673P, 723, 755, 1031, 1032P, 1043, 1108, 1178, 1203P, 1204P, 1432.
- 401-592-1001-1012-1021.  
Thiocyanic acid, 2-[2-(isobutoxy)ethoxy]ethyl ester;  $(\text{CH}_3)_2\text{CHCH}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . ( $\beta$ -Thiocyano- $\beta'$ -isobutoxy-diethyl ether).  
Fly spray. 112, 1032P.
- 401-592-1003-1012-1021.  
Thiocyanic acid, 2-[2-(propoxy)ethoxy]ethyl ester;  $\text{C}_6\text{H}_7\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . 1178, 1202P.
- 401-592-1012-1021-1027.  
Thiocyanic acid, 2-[2-(alkoxy)ethoxy]ethyl esters;  $\text{ROC}_n\text{H}_{2n}\text{OC}_n\text{H}_{2n}\text{SCN}$ . 673P, 1178, 1203P, 1204P.
- 401-592-1012-1022.  
Thiocyanic acid, 2-[2-(methoxy)ethoxy]ethyl ester;  $\text{CH}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . 1178, 1202P.
- 401-592-1013-1021.  
Thiocyanic acid, 2-[2-(ethoxy)ethoxy]ethyl esters;  $\text{C}_2\text{H}_5\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN}$ . (Thiocyanate of the mono-ethyl ether of diethylene glycol).  
HT houseflies. 112, 673P, 1032P, 1178, 1203P, 1204P.

- 401-665-730-951-1021.  
Piperidine, *p*-thiocyanophenylazo-, CU;  $\text{NCSC}_6\text{H}_4\text{-N:N}(\text{NC}_6\text{H}_5)_2$ . (*p*-Thiocyanate of phenyldiasopiperidine; thiocyanic acid, *p*-(piperidylazo)-phenyl ester). 341P.
- 401-665-1022.  
Thiocyanic acid, guanidine salt;  $\text{NH}_2\text{C}(:\text{NH})\text{NH}_2\text{-SCN}$ .  
T screwworms, codling moth larvae, and root lice. 186, 713, 916, 1178.
- 401-671-924-1021.  
Thiocyanic acid, 1-aminonaphthyl ester;  $\text{H}_2\text{NC}_6\text{H}_4\text{-SCN}$ . (Naphthylamine,  $\alpha$ -thiocyano-). 112, 674P, 1032P, 1178, 1202P.
- 401-671-951-1021.  
Thiocyanic acid, 4-aminophenyl ester;  $\text{H}_2\text{NC}_6\text{H}_4\text{SCN}$ . (Thiocyanic acid, *p*-aminophenyl ester; *p*-thiocyananiline).  
T *Aphis rumicis* at 0.1%. 112, 648, 1032P, 1178, 1202P.
- 401-671-951-1022.  
Thiocyanic acid, aminotolyl ester;  $\text{H}_2\text{NC}_6\text{H}_4(\text{CH}_3)\text{-SCN}$ . (*p*-Thiocyanotoluidine). 112, 674P, 1032P, 1178, 1202P.
- 401-671-951-1022.  
Thiocyanic acid, 4-(amino  $\alpha$ -methyl)phenyl ester;  $\text{H}_2\text{NCH}_2\text{C}_6\text{H}_4\text{SCN}$ . (Thiocyanic acid,  $\omega$ -amino-*p*-tolyl ester; *p*-thiocyanobenzylamine).  
Fly spray. 112, 1032P.
- 401-681-952-1021.  
Diphenylamine, 4, 4'-di-(thiocyano);  $\text{HN}(\text{C}_6\text{H}_5\text{-SCN})_2$ . (*p,p'*-Dithiocyanodiphenylamine).  
51% T mosquito larvae and T *Pisema quadrata*. 380P, 384P, 385P, 487, 1178, 1473P.
- 401-691-951-1023.  
Thiocyanic acid, *p*-dimethylaminophenyl ester;  $\text{NCSC}_6\text{H}_4\text{N}(\text{CH}_3)_2$ . (*p*-Thiocyanodimethylaniline; aniline, *N,N*-dimethyl-*p*-thiocyano-).  
T clothes moth and goldfish. 112, 295, 674P, 1032P, 1178, 1202P, 1291, 1432.
- 401-730-1021.  
Thiocyanic acid, pyridyl ester, CU;  $(\text{C}_5\text{H}_5\text{N})\text{SCN}$ . 1178, 1245P.
- 401-781-851-951-1023.  
Thiocyanic acid, 2-(methylthio)-4-chlorobenzyl ester;  $\text{ClC}_6\text{H}_4(\text{SCH}_3)\text{CH}_2\text{SCN}$ . (1-Methylthiol-4-chloro-2-thiocyanomethylbenzene; 2-methylthiol-5-chlorobenzyl ester of thiocyanic acid).  
HT aphids at 0.5%. 1178, 1385P, 1386P.
- 401-781-951-1023.  
Thiocyanic acid, 4-(methylthio)benzyl ester;  $\text{CH}_3\text{SC}_6\text{H}_4\text{-CH}_2\text{SCN}$ .  
100% T plant lice at 1-1000. 1178, 1385P, 1386P.
- 401-781-951-1024.  
Thiocyanic acid, 5-methyl-2-(methylthio)benzyl ester;  $\text{CH}_3\text{SC}_6\text{H}_3(\text{CH}_3)\text{CH}_2\text{SCN}$ . (1-Methylthio-4-methyl-2-thiocyanomethyl-benzene; thiocyanic acid, 2-methylthiol-5-methylbenzyl ester).  
T plant lice at .015%. 1178, 1385P, 1386P.
- 401-781-1045.  
Thiocyanic acid, sulfides of, CU. 1178, 1385P.
- 401-841-951-1021.  
Thiocyanic acid, *p*-bromophenyl ester;  $\text{BrC}_6\text{H}_4\text{SCN}$ . (*p*-Thiocyanobromobenzene).  
53.5% T mosquito larvae and T screwworms. 187, 487, 944.
- 401-851-951-1021.  
Thiocyanic acid, *p*-chlorophenyl ester;  $\text{ClC}_6\text{H}_4\text{SCN}$ .  
53.6% T mosquito larvae. 487.
- 401-851-951-1022.  
Thiocyanic acid, chlorobenzyl ester;  $\text{ClC}_6\text{H}_4\text{CH}_2\text{SCN}$ .  
T flies and gnats. 1178, 1245P.
- 401-851-1003-1021.  
Thiocyanic acid, 3-chloropropyl ester;  $\text{ClCH}_2\text{CH}_2\text{CH}_2\text{-SCN}$ . (Trimethylene chlorothiocyanate).  
56% T bean aphid. 1432, 1484.
- 401-851-1011-1021.  
Thiocyanic acid, 2-chloroethyl ester;  $\text{ClCH}_2\text{CH}_2\text{SCN}$ .  
58-78% T bean aphid. 1432, 1484.
- 401-871-951-1021.  
Thiocyanic acid, *p*-iodophenyl ester;  $\text{IC}_6\text{H}_4\text{SCN}$ . (*p*-Iodophenyl thiocyanate).  
T culicid mosquito larvae. 110, 187, 487, 944.
- 401-910-1003-1023.  
Thiocyanic acid, hydroabietyl ester;  $\text{C}_{19}\text{H}_{33}\text{SCN}$ ?  
Fly spray. 112, 1223P.
- 401-924-1021.  
Thiocyanic acid, naphthyl ester;  $\text{C}_{10}\text{H}_7\text{SCN}$ .  
Repellent and contact poison. 1178, 1245P.
- 401-924-1021.  
Thiocyanic acid, 1-decahydronaphthyl ester;  $\text{C}_{10}\text{H}_{17}\text{-SCN}$ . ( $\alpha$ -Decahydro-naphthyl thiocyanate).  
Fly spray. 112, 1223P.
- 401-924-1021.  
Thiocyanic acid, 2-decahydronaphthyl ester;  $\text{C}_{10}\text{H}_{17}\text{-SCN}$ . ( $\beta$ -Decahydro-naphthyl thiocyanate).  
Fly spray. 112, 1223P.
- 401-930-1024.  
Thiocyanic acid, bornyl ester;  $\text{C}_{10}\text{H}_{17}\text{SCN}$ .  
HT houseflies. 112, 1223P.
- 401-951-1011-1022.  
Thiocyanic acid, 2-(*p*-tolyl)ethyl ester;  $\text{CH}_3\text{C}_6\text{H}_4\text{C}_2\text{H}_5\text{-SCN}$ . ( $\alpha$ -*p*-Tolyl-ethyl ester of thiocyanic acid).  
T *Carpocapsa pomonella* larvae. 1291.
- 401-951-1021.  
Thiocyanic acid, phenyl ester;  $\text{C}_6\text{H}_5\text{SCN}$ . (Phenyl sulfocyanate; phenyl rhodanate).  
T houseflies and T aphids at 0.5%. 112, 295, 648, 1032P, 1178, 1202P, 1245P, 1474P.
- 401-951-1022.  
Thiocyanic acid, benzyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{SCN}$ .  
T houseflies, plant lice, *Aphis rumicis*, and *Pisema quadrata*. 112, 295, 380P, 384P, 385P, 648, 1032P, 1178, 1432, 1474P.
- 401-957-1003-1022.  
Thiocyanic acid, terpineyl ester;  $\text{C}_{10}\text{H}_{17}\text{SCN}$ .  
Fly spray. 112, 1223P.
- 401-961-993-1021.  
Thiocyanic acid, (1, 1, 3, 3-tetramethylbutyl) cyclohexyl ester;  $(\text{CH}_3)_3\text{CCH}_2\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_{11}\text{SCN}$ . (Thiocyanic acid,  $\alpha,\alpha,\gamma,\gamma$ -tetramethylbutylcyclohexyl ester;  $\alpha,\alpha,\gamma,\gamma$ -tetramethylbutylcyclohexyl ester of thiocyanic acid).  
Fly spray. 112, 1032P.
- 401-961-1002-1021.  
Thiocyanic acid, diisobutylcyclohexyl ester;  $[(\text{CH}_3)_2\text{CHCH}_2]_2\text{C}_6\text{H}_{11}\text{SCN}$ . (Diisobutylcyclohexylthiocyanate).  
Fly spray. 112, 675P.
- 401-961-1003-1022.  
Thiocyanic acid, menthyl ester;  $\text{C}_{10}\text{H}_{17}\text{SCN}$ . (Menthyl thiocyanate; *p*-methylisopropylcyclohexyl thiocyanate).  
Fly spray. 112, 1223P.
- 401-961-1021.  
Thiocyanic acid, cyclohexyl ester;  $\text{C}_6\text{H}_{11}\text{SCN}$ .  
Fly spray. 112, 675P, 1032P.
- 401-961-1027.  
Thiocyanic acid, alkylcyclohexyl ester, CU;  $\text{RC}_6\text{H}_{11}\text{-SCN}$ . (Alkyl cyclohexylthiocyanate).  
Fly spray. 112, 675P.
- 401-975.  
Thiocyanic acid, acyclic esters;  $\text{GR}(\text{SCN})_x$ .  
The above formula wherein G is a water-solubilizing polar group, R is an acyclic hydrocarbon residue of at least 10 carbon atoms, and x is an integer equal to the valence of R less 1.  
Fly spray. 106P, 112.
- 401-975-1021.  
Thiocyanic acid, naphthenyl ester, CU;  $\text{RSCN}$ .  
Fly spray. 112, 1223P.
- 401-975-1021.  
Thiocyanic acid, aromatic esters.  
T as mothproofing agent. 372P, 384P, 385P, 1175, 1178, 1474P.
- 401-975-1021-1027.  
Thiocyanic acid, cycloalkyl esters;  $\text{R}(\text{CNX})_y$ .  
The above formula wherein R is an alicyclic hydrocarbon radical containing at least 10 carbon atoms, such as naphthenic and cyclic terpene hydrocarbon radicals; X represents sulfur, selenium, or tellurium; and y represents a simple digit corresponding to the valency of R.  
Fly spray. 112, 1223P.
- 401-980-1021.  
Thiocyanic acid, myristyl ester;  $\text{C}_{20}\text{H}_{41}\text{SCN}$ . (Myristyl thiocyanate). 1227P, 1482.
- 401-980-1021.  
Thiocyanic acid, carnaubyl ester;  $\text{C}_{26}\text{H}_{53}\text{SCN}$ . (Carnaubyl thiocyanate). 1227P, 1482.

- 401-983-1021.  
Thiocyanic acid, stearyl ester;  $C_{18}H_{37}SCN$ . (Stearyl thiocyanate).  
T flies, aphids, etc.; NT Japanese beetle, 496, 1227P, 1432.
- 401-983-1021-1080.  
Thiocyanic acid, oleyl ester;  $C_{18}H_{33}CH:CH(CH_3)_2SCN$ . (Oleyl thiocyanate). 1227P, 1432.
- 401-983-1021-1389.  
Sulfuric acid, thiocyanooctadecyl ester;  $(NCS)C_{18}H_{35}HSO_4$ . (Sulfate, thiocyanooctadecyl).  
Fly spray. 106P, 112.
- 401-985-1021.  
Thiocyanic acid, cetyl ester;  $C_{18}H_{35}SCN$ . (Cetyl thiocyanate; cetyl rhodanate).  
T houseflies; ST eggs of *Anuraphis pomi*. 112, 496, 675P, 777, 1032P, 1432.
- 401-987-1021.  
Thiocyanic acid, myristyl ester;  $C_{14}H_{29}SCN$ . (Myristyl rhodanate; myristyl thiocyanate).  
NT Colorado potato beetle and Mexican bean beetle. 606, 1432.
- 401-987-1021.  
Thiocyanic acid, 2, 4, 6, 8-tetramethyl-1-decanyl ester;  $CH_3CH_2CH(CH_3)CH_2CH(CH_3)CH_2CH(CH_3)CH_2CH(CH_3)CH_2SCN$ . (2, 4, 6, 8-Tetramethyldecanyl-1 thiocyanate). 1227P, 1432.
- 401-988-1021.  
Thiocyanic acid, 2,4,6-trimethyl-1-decanyl ester;  $CH_3CH_2CH_2CH(CH_3)CH_2CH(CH_3)CH_2CH(CH_3)CH_2SCN$ . (2, 4, 6-Trimethyldecanyl-1 thiocyanate). 1227P, 1432.
- 401-989-1021.  
Thiocyanic acid, lauryl ester;  $C_{12}H_{25}SCN$ . (Lauryl thiocyanate; lauryl rhodanate; Loro).  
Toxic to many species of insects. 112, 270, 597P, 608, 648, 777, 1032P, 1226P, 1227P, 1274, 1432.
- 401-989-1021.  
Thiocyanic acid, sec-dodecanyl ester;  $(CH_3)_2C_{10}H_{21}SCN$  (sec-Dodecanyl thiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 401-989-1021-1218-1389.  
Dodecyl sodium sulfate, thiocyno-, CU;  $(NCS)C_{12}H_{25}SO_4Na$ .  
Fly spray. 106P, 112.
- 401-990-1021-1389.  
Undecyl sulfate, thiocyno-;  $(NCS)C_{11}H_{23}SO_4H$ .  
Fly spray. 106P, 112.
- 401-991-1021.  
Thiocyanic acid, 2, 6-dimethyl-1-octanyl ester;  $CH_3CH_2CH(CH_3)CH_2CH_2CH_2CH(CH_3)CH_2SCN$ . (2, 6-Dimethyl-octanyl-1 thiocyanate; Tetrahydrodinalyl ester of thiocyanic acid).  
95% T *Carpocapsa pomonella* larvae. 1291.  
T flies, aphids, etc. 1227P, 1432.
- 401-992-1021.  
Thiocyanic acid, nonyl ester;  $C_9H_{19}SCN$ . (Nonyl thiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 401-993-1021.  
Thiocyanic acid, capryl ester;  $C_8H_{17}SCN$ .  
Fly spray. 112, 675P.
- 401-993-1021.  
Thiocyanic acid, octyl ester;  $C_8H_{17}SCN$ .  
Fly spray. 112, 1032P, 1227P, 1432.
- 401-993-1021.  
Thiocyanic acid, 2-octyl ester;  $CH_3(CH_2)_6CH(SCN)CH_3$ .  
T houseflies and *Aphis rumicis*. 112, 648, 1032P, 1178.
- 401-993-1021.  
Thiocyanic acid, 2, 4-dimethyl-1-hexanyl ester;  $CH_3CH(CH_3)CH_2CH(CH_3)CH_2CH_2SCN$ . (2, 4-Dimethyl-hexanyl-1 thiocyanate). 1227P, 1432.
- 401-993-1021.  
Thiocyanic acid, 2, 6-dimethyl-1-hexanyl ester?;  $CH_3(CH_2)CH_2CH_2CH_2CH(CH_3)CH_2SCN$ . (2,6-Dimethyl-hexanyl thiocyanate). 1227P, 1432.
- 401-993-1021.  
Thiocyanic acid, 2-methyl-1-hexyl ester;  $CH_3CH(CH_3)CH_2CH_2CH_2SCN$ . (Amyl  $\beta$ -thiocyanopropionate). 673P.
- 401-995-1021.  
Thiocyanic acid, 4-methyl-1-hexanyl ester;  $CH_3CH_2CH(CH_3)CH_2CH_2CH_2SCN$ . (4-Methylhexanyl-1-thiocyanate). 1227P, 1432.
- 401-997-1021.  
Thiocyanic acid, 2-methyl-1-pentanyl ester;  $CH_3CH_2CH_2CH(CH_3)CH_2SCN$ . (2-Methylpentanyl-1-thiocyanate). 1227P, 1432.
- 401-999-1021.  
Thiocyanic acid, n-amyl ester;  $C_5H_{11}SCN$ .  
Fly spray. 112, 675P, 1032P.
- 401-999-1021.  
Thiocyanic acid, isocamyl ester;  $(CH_3)_2CHCH_2CH_2SCN$ .  
Fly spray. 112, 675P, 1032P.
- 401-999-1021.  
Thiocyanic acid, tert-amyl ester;  $CH_3CH_2C(CH_3)_2SCN$ .  
Fly spray. 112, 675P, 1032P.
- 401-1001-1021.  
Thiocyanic acid, n-butyl ester;  $C_4H_9SCN$ . (n-Butyl thiocyanate; n-butyl sulfocyanate; n-butyl rhodanate).  
HT houseflies; T aphids, red scale, and 45.9% T Codling moth. 112, 268, 648, 675P, 915, 1032P, 1178.
- 401-1001-1021.  
Thiocyanic acid, tert-butyl ester;  $(CH_3)_3CSCN$ .  
Fly spray. 112, 675P, 1032P.
- 401-1003-1021.  
Thiocyanic acid, isopropyl ester;  $(CH_3)_2CHSCN$ . (Isopropyl sulfocyanate; isopropyl rhodanate).  
100% T *Sitophilus oryzae* and T *Chrysomphalus aurantii*. 268, 1178, 1180.
- 401-1003-1021-1030.  
Thiocyanic acid, allyl ester;  $CH_2=CHCH_2SCN$ . (2-Propenyl thiocyanate; allyl sulfocyanide).  
T *Leptinotarsa decemlineata*. 1009, 1178, 1245P.
- 401-1011-1021.  
Thiocyanic acid, ethyl ester;  $C_2H_5SCN$ . (Ethyl thiocyanate).  
T codling moth, red scale, and m.l.d. to rice weevils is 100 mg./L. 268, 915, 1178, 1432.
- 401-1021.  
Thiocyanic acid;  $HSCN$ . (Sulfocyanic acid).  
See 1405 (p. 178).
- 401-1021-1027.  
Thiocyanates, alkyl, CU.  
T mealy bugs and cicadas; used as wetting agents. 673P, 776, 924, 1033, 1034, 1178, 1303P, 1204P, 1432.
- 401-1021-1045.  
Thiocyanates, CU. (Rhodanates).  
T *Chrysomphalus aurantii*. 108, 145, 268, 380P, 1178, 1202P, 1245P, 1247P, 1432.
- 401-1022.  
Thiocyanic acid, methyl ester;  $CH_3SCN$ . (Methyl thiocyanate; methyl sulfocyanate).  
T goldfish and T *Chrysomphalus aurantii* but proved injurious to citrus trees. 27, 268, 295, 830, 931, 1170, 1178, 1207.
- 402-440-950-1022.  
Phenothiazine dithiocyno;  $(C_{12}H_8N_2S)(SCN)_2$ .  
67% T codling moth larvae; NT mosquito larvae. 487, 1291.
- 402-541-980-1218.  
Behenic acid, dithiocyno-, sodium salt, CU;  $(SCN)_2C_{22}H_{42}COONa$ . (Dithiocyno sodium docosanoate).  
Fly spray. 106P, 112.
- 402-541-983-1022.  
Stearic acid, 8, 9-dithiocyno-;  $CH_3(CH_2)_7CH(SCN)CH(SCN)(CH_2)_7COOH$ . (Stearic acid, theta, iota-dithiocyno-; dithiocyanooctadecanoic acid).  
Fly spray. 106P, 112.
- 402-541-983-1022-1218.  
Stearic acid, 8, 9-dithiocyno-, sodium salt;  $CH_3(CH_2)_7CH(SCN)CH(SCN)(CH_2)_7COONa$ . (Stearic acid, theta, iota-dithiocyno-, sodium salt; dithiocyno sodium octadecanoate).  
Fly spray. 106P, 112.
- 402-541-990-1022.  
Hendecanoic acid, dithiocyno-;  $(SCN)_2C_{11}H_{21}COOH$ . (Dithiocyno undecanoic acid).  
Fly spray. 106P, 112.
- 402-541-990-1022-1218.  
Hendecanoic acid, dithiocyno-, sodium salt;  $(SCN)_2C_{11}H_{21}COONa$ . (Dithiocyno sodium undecanoate).  
Fly spray. 106P, 112.



402-551-1012-1022.

Acetic acid, thiocyno-, (3-thiocyanoethyl) ester;  $\text{NCSCH}_2\text{COOCH}_2\text{H}_2\text{SCN}$ . ( $\beta$ -Thiocyano-ethyl-thioacyanoacetate). 711P, 1201P, 1205P, 1432.

402-552-991-1014-1022.

Diethylene glycol, di-(thiocyanoacetic acid) ester;  $\text{O}(-\text{CH}_2\text{H}_2\text{OOCCH}_2\text{SCN})_2$ . (Diethylene glycol dithioacyanoacetate). 1201P.

402-552-991-1014-1022.

Phthalic acid, bis-2-(2-thiocyanoethoxy)ethyl ester;  $\text{C}_6\text{H}_4(\text{COOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{SCN})_2$ . (Bis( $\beta$ -thiocyanoethoxyethyl) phthalate). 711P, 1201P, 1205P, 1432.

402-552-991-1014-1022.

Sebacic acid, bis-2-(2-thiocyanoethoxy)ethyl ester;  $\text{NCSCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OOC}(\text{CH}_2)_8\text{COOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{SCN}$ . (Bis( $\beta$ -thiocyanoethoxyethyl) sebacate). 1201P.

402-552-992-1001-1014-1022.

Succinic acid, bis-2-(2-thiocyanoethoxy)ethyl ester;  $(-\text{CH}_2\text{COOCH}_2\text{H}_2\text{OC}_2\text{H}_4\text{SCN})_2$ . (Bis( $\beta$ -thiocyanoethoxyethyl) ester of succinic acid). 112, 1032P, 1201P.

402-552-951-1012-1022.

Phthalic acid, bis(2-thiocyanoethyl) ester;  $\text{C}_6\text{H}_4(\text{COOCH}_2\text{H}_2\text{SCN})_2$ . (Bis( $\beta$ -thiocyanoethyl)-phthalate). 1201P.

402-552-991-1012-1022.

Sebacic acid, bis(2-thiocyanoethyl) ester;  $\text{NCSCH}_2\text{CH}_2\text{OOC}(\text{CH}_2)_8\text{COOCH}_2\text{CH}_2\text{SCN}$ . (Bis( $\beta$ -thiocyanoethyl)-sebacate). 1201P.

402-552-1001-1012-1022.

Succinic acid, bis(2-thiocyanoethyl) ester;  $(-\text{CH}_2\text{COOCH}_2\text{CH}_2\text{SCN})_2$ . (Bis( $\beta$ -thiocyanoethyl)-succinate). 711P, 1201P, 1205P, 1432.

402-552-1013-1022.

Glycol bis(thiocyanoacetate);  $(\text{CH}_2\text{OOCCH}_2\text{SCN})_2$ . (Ethylene glycol-dithiocyanoacetate). 1201P.

402-553-1003-1013-1023.

Glycerol tris(thiocyanoacetate);  $\text{NCSCH}_2\text{COOCH}(\text{CH}_2\text{OOCCH}_2\text{SCN})_2$ . (Glycerol trithiocyanoacetate). 711P, 1201P, 1205P, 1432.

402-571-1003-1022.

2-Propanone, 1, 3-dithiocyano-;  $\text{NCSCH}_2\text{COCH}_2\text{SCN}$ . (Thiocyanic acid, thiocyanocetyl methyl ester;  $\alpha,\gamma$ -dithiocyanoacetone). 112, 1032P.

402-581-1003-1021.

2-Propanol, 1, 3-dithiocyano-;  $\text{NCSCH}_2\text{CHOHCH}_2\text{SCN}$ . ( $\alpha,\gamma$ -Di(thiocyano)propanol-2). 1201P.

402-591-851-951-1024.

$\alpha,\alpha'$ -m-Xylenediol, 4-chloro-6-methoxy-, dithiocyanate;  $\text{CH}_3\text{O}(\text{Cl})\text{C}_6\text{H}_3(\text{CH}_2\text{SCN})_2$ . (Thiocyanic acid, 2-chloro-6-methoxy-p-xylyl ester; 3-chloro-1-methoxy, 4, 6-xylyldithiocyanate). 100% T green plant lice at 0.1%. 372P, 815P, 1178, 1246P.

402-591-951-1024.

$\alpha,\alpha'$ -m-Xylenediol, 4-methoxy-, dithiocyanate;  $\text{CH}_3\text{O}(\text{CH}_2\text{SCN})_2$ . (Thiocyanic acid, 6-methoxy-m-xylyl ester; 1-methoxy-2, 4-xylyldithiocyanate). T aphids at 0.25% and T as mothproofing agent. 372P, 815P, 1178, 1178.

402-591-952-1025.

$\alpha,\alpha'$ -m-Xylenediol, 4-benzyloxy-, dithiocyanate;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{CH}_2\text{SCN})_2$ . (Thiocyanic acid, 4-phenylmethoxy-3-thiocyanomethylbenzyl ester). Fly spray. 112, 692P.

402-591-1012-1022.

Diethylene glycol dithiocyanate;  $\text{O}(-\text{CH}_2\text{CH}_2\text{SCN})_2$ . (Thiocyanic acid, 2-(2-thiocyanoethoxy)ethyl ester; bis( $\beta$ -thiocyanoethyl) ether). 112, 673P, 711P, 1032P, 1201P, 1205P, 1432.

402-592-621-1012-1022.

p-Dioxane, 2, 3'-bis(2-thiocyanoethoxy)-;  $(\text{C}_4\text{H}_8\text{O}_2)(\text{OC}_2\text{H}_4\text{SCN})_2$ . (3-Bis( $\beta$ -thiocyanoethoxy)dioxane). 1201P.

402-592-621-1012-1022.

p-Dioxane, 2, 3-bis(2-thiocyanoethoxy)-;  $(\text{C}_4\text{H}_8\text{O}_2)(\text{OC}_2\text{H}_4\text{SCN})_2$ . (2, 3-Bis( $\beta$ -thiocyanoethoxy)dioxane). Fly spray. 112, 1032P.

402-592-951-1012-1023.

Benzaldehyde bis(2-thiocyanoethyl) acetal;  $\text{C}_6\text{H}_5\text{CH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . (Bis( $\beta$ -thiocyanoethoxy)phenyl methane). 1201P.

402-592-951-1025.

$\alpha,\alpha'$ -p-Xylenediol, 2, 5-dimethoxy dithiocyanate;  $(\text{CH}_3\text{O})_2\text{C}_6\text{H}_3(\text{CH}_2\text{SCN})_2$ . (Thiocyanic acid, 2, 5-dimethoxy-p-xylyl ester; 1, 4-dimethoxy-2, 5-xylyldithiocyanate). T aphids at 1-1000 and T as mothproofing agent. 372P, 815P, 1178, 1178.

402-592-952-1012-1023.

Methane, bis[p-(2-thiocyanoethoxy)phenyl]-;  $\text{H}_2\text{O}(\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{SCN})_2$ . (Thiocyanic acid, 2-p-[p-(2-thiocyanoethoxy)benzyl]phenoxyethyl ester; bis( $\beta$ -thiocyanoethoxyphenyl) methane). Fly spray. 112, 1032P.

402-592-995-1012-1022.

Enanthaldehyde bis(2-thiocyanoethyl) acetal;  $\text{C}_7\text{H}_{14}\text{OC}_2\text{H}_4\text{SCN})_2$ . (Thiocyanic acid, 2-[hexyl-(2-thiocyanoethoxy)methoxy]ethyl ester;  $\alpha,\alpha$ -bis( $\beta$ -thiocyanoethoxy) heptane). T houseflies. 112, 1032P, 1201P.

402-592-1001-1004-1022.

Isobutyraldehyde bis(2-thiocyanoethyl) acetal;  $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . ( $\alpha,\alpha$ -Bis( $\beta$ -thiocyanoethoxy)- $\beta$ -methyl propane). 1201P.

402-592-1001-1004-1022.

Isobutyraldehyde bis(3-thiocyanopropyl) acetal;  $(\text{CH}_3)_2\text{CHCH}(\text{OC}_3\text{H}_6\text{SCN})_2$ . (Thiocyanic acid, 3-[1-(3-thiocyanopropoxy)isobutoxy]propyl ester;  $\alpha,\alpha$ -bis( $\gamma$ -thiocyanopropoxy)- $\beta$ -methyl propane). Fly spray. 112, 1032P.

402-592-1001-1012-1022.

Butyraldehyde bis(2-thiocyanoethyl) acetal;  $\text{C}_4\text{H}_7\text{CH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . ( $\alpha,\alpha$ -Bis( $\beta$ -thiocyanoethoxy)butane; thiocyanic acid, 2-[1-(2-thiocyanoethoxy)butoxy]ethyl ester). T houseflies. 112, 1032P, 1201P.

402-592-1001-1012-1022.

Isobutyraldehyde bis(2-thiocyanoethyl) acetal;  $(\text{CH}_3)_2\text{CHCH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . (Thiocyanic acid, 2-[1-(2-thiocyanoethoxy)isobutoxy]ethyl ester;  $\alpha,\alpha$ -bis( $\beta$ -thiocyanoethoxy)- $\beta$ -methylpropane). Fly spray. 112, 1032P.

402-592-1001-1012-1022-1030.

Crotonaldehyde bis(2-thiocyanoethyl) acetal;  $\text{CH}_3\text{CH}=\text{CHCH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . (Thiocyanic acid, 2-[1-(3-thiocyanoethoxy)-2-butenyloxy]ethyl ester;  $\alpha,\alpha$ -bis( $\beta$ -thiocyanoethoxy) butene-2. T houseflies. 112, 1032P, 1201P.

402-592-1003-1012-1022.

Propionaldehyde bis(2-thiocyanoethyl) acetal;  $\text{C}_3\text{H}_7\text{CH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . (Thiocyanic acid, 2-[1-(2-thiocyanoethoxy)propoxy]ethyl ester;  $\alpha,\alpha$ -bis( $\beta$ -thiocyanoethoxy) propane). Fly spray. 112, 1032P.

402-592-1003-1012-1023.

Propionaldehyde,  $\gamma$ -thiocyano-, bis(2-thiocyanoethyl) acetal;  $\text{NCSCH}_2\text{CH}_2\text{CH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . (Thiocyanic acid, 3-bis(2-thiocyanoethoxy)propyl ester;  $\alpha,\alpha$ -bis( $\beta$ -thiocyanoethoxy)- $\gamma$ -thiocyano-propane). Fly spray. 112, 1032P, 1201P.

402-592-1003-1014-1022.

Pentane, 1, 5-bis(2-thiocyanoethoxy)-3-ethyl-;  $\text{CH}_3\text{CH}_2\text{CH}(\text{C}_2\text{H}_4\text{OC}_2\text{H}_4\text{SCN})_2$ . ( $\alpha,\alpha$ -Bis( $\beta$ -thiocyanoethoxyethyl) propane). 711P, 1201P, 1205P, 1432.

402-592-1004-1023.

Methane, bis(3-thiocyanopropoxy)-;  $\text{H}_2\text{C}(\text{OC}_3\text{H}_6\text{SCN})_2$ . (Thiocyanic acid, 3-(3-thiocyanopropoxymethoxy)propyl ester; bis( $\gamma$ -thiocyanopropoxy) methane). Fly spray. 112, 1032P.

402-592-1012-1023.

Methane, bis(2-thiocyanoethoxy)-;  $\text{H}_2\text{C}(\text{OC}_2\text{H}_4\text{SCN})_2$ . (Bis( $\beta$ -thiocyanoethoxy) methane). 711P, 1201P, 1205P, 1432.

402-592-1013-1022.

Acetaldehyde bis(2-thiocyanoethyl) acetal;  $\text{C}_2\text{H}_5\text{CH}(\text{OC}_2\text{H}_4\text{SCN})_2$ . ( $\alpha,\alpha$ -Bis( $\beta$ -thiocyanoethoxy) ethane; thiocyanic acid, 2-[1-(2-thiocyanoethoxy)ethoxy]ethyl ester). T houseflies. 112, 1032P, 1201P.

402-594-1013-1024.

Acetaldehyde bis[(2-thiocyanoethoxy)methyl] acetal;  $\text{C}_2\text{H}_5\text{CH}(\text{OCH}_2\text{OC}_2\text{H}_4\text{SCN})_2$ . ( $\alpha,\alpha$ -Bis( $\beta$ -thiocyanoethoxymethoxy) ethane). T houseflies. 112, 1032P, 1201P.

- 402-594-1013-1024.  
Ethane, 1, 2-bis[(2-thiocyanoethoxy)methoxy]-; (-CH<sub>2</sub>OCH<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>SCN)<sub>2</sub>. ( $\alpha,\alpha$ -Bis( $\beta$ -thiocyanoethoxymethoxy)-ethane; thiocyanic acid, 2-[2-(2-thiocyanoethoxymethoxy)ethoxymethoxy]ethyl ester).  
T houseflies. 112, 711P, 1032P, 1201P, 1205P, 1432.
- 402-691-1013-1023.  
Triethylamine, 2, 2', 2''-trithiocyano-; N(C<sub>2</sub>H<sub>5</sub>SCN)<sub>3</sub>. (Tris( $\beta$ -thiocyanoethyl)amine). 1201P.
- 402-701-951-1003-1021.  
 $\alpha,\alpha$ -Toluenediol, *m*-cyano-, dithiocyanate; NCC<sub>6</sub>H<sub>4</sub>-CH(SCN)<sub>2</sub>. (Thiocyanic acid, *m*-cyanobenzal ester). 1178, 1246P.
- 402-730-1023.  
 $\alpha,\alpha$ -Pyridinemethanediol dithiocyanate; C<sub>5</sub>H<sub>5</sub>NCH(SCN)<sub>2</sub>. (Thiocyanic acid, picoline ester). 1178, 1246P.
- 402-781-951-1022-1027.  
Thiocyanic acid, substituted phenylmethyl esters of; C<sub>6</sub>H<sub>5</sub>(R)(Salk)(CH<sub>2</sub>SCN)<sub>2</sub>.  
The above formula wherein Alk stands for an alkyl radical, R for hydrogen, halogen, or an alkyl radical, and x stands for 1 or 2. 1178, 1386P.
- 402-781-1012-1022.  
Sulfide, bis(2-thiocyanoethyl)-; S(CH<sub>2</sub>CH<sub>2</sub>SCN)<sub>2</sub>. Bis( $\beta$ -thiocyanoethyl) sulfide).  
T houseflies. 112, 711P, 1032P, 1201P, 1205P, 1432.
- 402-841-951-1024.  
 $\alpha,\alpha,\alpha',\alpha'$ -*m*-Xylenetetrol, (?) -bromo-, tetrathiocyanate; BrC<sub>6</sub>H<sub>3</sub>[CH(SCN)<sub>2</sub>]<sub>2</sub>. (Thiocyanic acid, 6(?) bromoisophthalal ester).  
T plant lice when used at 0.16 mg./cm<sup>2</sup>. 1178, 1247P.
- 402-851-951-1023.  
 $\alpha,\alpha$ -Toluenediol, 3-chloro-, dithiocyanate; ClC<sub>6</sub>H<sub>4</sub>-CH(SCN)<sub>2</sub>. (Thiocyanic acid, *m*-chlorobenzal ester). 55% T plant lice at 2%. 1178, 1246P, 1247P.
- 402-951-1011-1022.  
1, 2-Ethanediol, 1-phenyl-, dithiocyanate; C<sub>6</sub>H<sub>5</sub>-CH(SCN)CH<sub>2</sub>SCN. (1-Phenyl-2-thiocyanoethyl ester of thiocyanic acid; styroldithiocyanate; dithiocyano styrene).  
T *Piesma quadrata* and houseflies. 112, 380P, 384P, 385P, 1032P, 1178, 1473P.
- 402-951-1022.  
Thiocyanic acid, *m*-phenylene ester; C<sub>6</sub>H<sub>4</sub>(SCN)<sub>2</sub>. 576P.
- 402-951-1023.  
 $\alpha,\alpha$ -Toluenediol dithiocyanate; C<sub>6</sub>H<sub>5</sub>CH(SCN)<sub>2</sub>. (Thiocyanic acid, benzal ester). 295, 372P, 380P, 384P, 385P, 648, 815P, 1178, 1245P, 1474P.
- 402-951-1025.  
 $\alpha,\alpha,\alpha',\alpha'$ -*m*-Xylenetetrol tetrathiocyanate; C<sub>6</sub>H<sub>4</sub>-[CH(SCN)<sub>2</sub>]<sub>2</sub>. (*m*-Xylene,  $\omega,\omega$ -tetrathiocyano-). 1178, 1247P.
- 402-951-1025.  
 $\alpha,\alpha,\alpha',\alpha'$ -*o*-Xylenetetrol tetrathiocyanate; C<sub>6</sub>H<sub>4</sub>-[CH(SCN)<sub>2</sub>]<sub>2</sub>. (*o*-Xylene,  $\omega,\omega$ -tetrathiocyano-). 1178, 1247P.
- 402-951-1025.  
 $\alpha,\alpha,\alpha',\alpha'$ -*p*-Xylenetetrol tetrathiocyanate; C<sub>6</sub>H<sub>4</sub>-[CH(SCN)<sub>2</sub>]<sub>2</sub>. (*p*-Xylene,  $\omega,\omega$ -tetrathiocyano-; thiocyanic acid, terephthalal ester), 70% T plant lice. 1178, 1247P.
- 402-957-970-1025.  
Pinene, dithiocyano-; C<sub>10</sub>H<sub>14</sub>(SCN)<sub>2</sub>. (Thiocyanic acid, thiocyanopinene ester; di-thiocyano-pinene).  
Fly spray. 112, 1223P.
- 402-1003-1022.  
1, 2-Propanediol dithiocyanate; CH<sub>3</sub>CH(SCN)CH<sub>2</sub>-SCN. (2-Thiocyanopropyl ester of thiocyanic acid; propylene dithiocyanate).  
T *Aphis rumicis*. 1432, 1484.
- 402-1003-1022.  
1, 3-Propanediol dithiocyanate; NCSCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-SCN. (Trimethylene dithiocyanate; 3-thiocyanopropyl ester of thiocyanic acid).  
T *Aphis rumicis* and beetles; NT silkworm. 647, 1432, 1484, 1487.
- 402-1011-1021.  
Ethanediol dithiocyanate, CU; C<sub>2</sub>H<sub>4</sub>(SCN)<sub>2</sub>. (Ethyl-dithiocyanate).  
NT *Malacosoma americana*. 119.
- 402-1011-1023.  
Glycol dithiocyanate; NCSCH<sub>2</sub>CH<sub>2</sub>SCN. (Ethylene dithiocyanate; thiocyanic acid, 2-thiocyanoethyl ester).  
T houseflies, *Piesma quadrata*, *Aphis rumicis*, and 9-25% T tent caterpillar at 0.1%. 112, 119, 380P, 384P, 385P, 1032P, 1178, 1473P, 1484.
- 402-1011-1022.  
1, 1-Ethanediol dithiocyanate; CH<sub>2</sub>CH(SCN)<sub>2</sub>. (Thiocyanic acid, ethylidene ester). 1178, 1246P.
- 402-1022-1027.  
1, 1-Alkanediol dithiocyanate; RCH(SCN)<sub>2</sub>. (Thiocyanates, di-). 1178, 1246P.
- 402-1023.  
Methanediol, dithiocyanate? CH<sub>2</sub>(SCN)<sub>2</sub>. (Thiocyanic acid, methylene ester). 1178, 1246P.
- 411-581-951-1021.  
Isothiocyanic acid, *p*-hydroxyphenyl ester; HOC<sub>6</sub>H<sub>4</sub>-NCS. (*p*-Hydroxyphenyl isothiocyanate). 575P, 1432.
- 411-581-952-1021.  
Isothiocyanic acid, cyclohexyl ester, compound with cyclohexylamine; C<sub>6</sub>H<sub>11</sub>NHCC<sub>6</sub>H<sub>10</sub>NCS? (Cyclohexylisothiocyanate cyclohexylamine).  
T *Mysus porosus*. 772.
- 411-581-951-1021.  
Isothiocyanic acid, chlorophenyl ester; ClC<sub>6</sub>H<sub>4</sub>NCS. (Chlorophenyl isothiocyanate). 575P, 1432.
- 411-910-1003-1024.  
Isothiocyanic acid, hydroxyabietyl ester; SCNCH<sub>2</sub>-(C<sub>14</sub>H<sub>25</sub>)(CH<sub>2</sub>)<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>.  
T house flies. 112, 1223P.
- 411-924-1021.  
Isothiocyanic acid, naphthyl ester; C<sub>10</sub>H<sub>7</sub>NCS. (Naphthylisothiocyanate). 27, 295, 1207.
- 411-930-1025.  
Isothiocyanic acid, bornyl ester; C<sub>10</sub>H<sub>17</sub>NCS. Fly spray. 112, 1223P.
- 411-951-1003-1021.  
Isothiocyanic acid, terpineyl ester; C<sub>10</sub>H<sub>17</sub>NCS. Fly spray. 112, 1223P.
- 411-951-1021.  
Isothiocyanic acid, phenyl ester; C<sub>6</sub>H<sub>5</sub>NCS. (Phenyl isothiocyanate; phenyl mustard oil).  
T young codling moth larvae. 575P, 929, 930, 1432, 1487.
- 411-951-1022.  
Isothiocyanic acid, benzyl ester; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>NCS. (Benzyl isothiocyanate; benzyl mustard oil). 575P, 1432.
- 411-961-1003-1021.  
Isothiocyanic acid, menthyl ester; C<sub>10</sub>H<sub>17</sub>NCS. Fly spray. 112, 1223P.
- 411-961-1021.  
Isothiocyanic acid, cyclohexyl ester; C<sub>6</sub>H<sub>11</sub>NCS. (Cyclohexyl isothiocyanate).  
NT *Mysus porosus* and *Tetranychus telarius*. 772, 1432.
- 411-975-1021.  
Isothiocyanic acid, aryl esters, CU. 575P.
- 411-980-1021.  
Isothiocyanic acid, myrcyl ester; C<sub>10</sub>H<sub>17</sub>NCS. (Mylisyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-980-1021.  
Isothiocyanic acid, carnaubyl ester; C<sub>18</sub>H<sub>35</sub>NCS. (Carnaubyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-983-1021.  
Isothiocyanic acid, 1-octadecyl ester; C<sub>18</sub>H<sub>37</sub>NCS. (Stearyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-983-1021-1030.  
Isothiocyanic acid, oleyl ester; C<sub>18</sub>H<sub>33</sub>NCS. (Oleyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-985-1021.  
Isothiocyanic acid, cetyl ester; C<sub>18</sub>H<sub>37</sub>NCS. (Cetyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-987-1021.  
Isothiocyanic acid, 2, 4, 6, 8-tetramethyldecyl ester; CH<sub>3</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>NCS. (2, 4, 6, 8-Tetramethyldecanyl-1 isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-988-1021.  
Isothiocyanic acid, 2, 4, 6-trimethyldecyl ester; CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>NCS.



- (CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>NCS. (2, 4, 6-Trimethyldecanyl-1 isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-999-1021.  
Isothiocyanic acid, dodecyl ester; C<sub>12</sub>H<sub>25</sub>NCS. (Lauryl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-999-1021.  
Isothiocyanic acid, *sec*-dodecyl ester; (CH<sub>3</sub>)<sub>2</sub>CH-(CH<sub>2</sub>)<sub>9</sub>NCS. (*sec*-Dodecanyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-991-1021.  
Isothiocyanic acid, 2, 6-dimethyloctyl ester; CH<sub>3</sub>-CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>NCS. (2, 6-Dimethyloctanyl-1 isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-992-1021.  
Isothiocyanic acid, nonyl ester; C<sub>9</sub>H<sub>19</sub>NCS. (Nonyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-993-1021.  
Isothiocyanic acid, 2, 4-dimethylhexyl ester; CH<sub>3</sub>-CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>NCS. (2, 4-Dimethylhexanyl-1 isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-993-1021.  
Isothiocyanic acid, 2, 6-dimethylhexyl ester; CH<sub>3</sub>-(CH<sub>2</sub>)<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>NCS. (2, 6-Dimethylhexanyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-993-1021.  
Isothiocyanic acid, octyl ester; C<sub>8</sub>H<sub>17</sub>NCS. (Octyl isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-995-1021.  
Isothiocyanic acid, 4-methylhexyl ester; CH<sub>3</sub>CH<sub>2</sub>CH-(CH<sub>2</sub>)<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>NCS. (4-Methylhexanyl-1 isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-997-1021.  
Isothiocyanic acid, 2-methylamyl ester; CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>-CH(CH<sub>3</sub>)CH<sub>2</sub>NCS. (2-Methylpentanyl-1-isothiocyanate).  
T flies, aphids, etc. 1227P, 1432.
- 411-999-1021.  
Isothiocyanic acid, amyl ester; C<sub>5</sub>H<sub>11</sub>NCS. (*n*-Amyl isothiocyanate; *n*-amyl mustard oil).  
T as fish poison. 295, 1178.
- 411-999-1021.  
Isothiocyanic acid, isoamyl ester; (CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>-CH<sub>2</sub>NCS. (Isoamyl isothiocyanate;  $\gamma$ -methylbutyl isothiocyanate).  
T goldfish. 295, 1178.
- 411-999-1021.  
Isothiocyanic acid, *tert*-amyl ester; CH<sub>3</sub>CH<sub>2</sub>C-(CH<sub>3</sub>)<sub>2</sub>NCS. (*tert*-Amyl isothiocyanate).  
NT as fish poison. 295, 1178.
- 411-1003-1021-1030.  
Isothiocyanic acid, allyl ester; CH<sub>2</sub>=CHCH<sub>2</sub>NCS. (Allylisothiocyanate; 2-propenyl isothiocyanate; allyl mustard oil).  
100% T rice weevil and T *Agriotes*; ST codling moth; NT scale insects. 268, 846, 925, 1013, 1178, 1180, 1352, 1392, 1432.
- 411-1011-1021.  
Isothiocyanic acid, ethyl ester; C<sub>2</sub>H<sub>5</sub>NCS. (Ethyl isothiocyanate; ethyl mustard oil).  
100% T rice weevil, T *Chrysomphalus aurantii*, wireworms, and codling moth larvae. 268, 846, 915, 1178, 1180, 1432.
- 411-1021-1045.  
Isothiocyanic acid, esters of, CU; RNCS.  
T *Chrysomphalus aurantii*. 268, 1178, 1432.
- 411-1022.  
Isothiocyanic acid, methyl ester; CH<sub>3</sub>NCS. (Methyl isothiocyanate; methyl mustard oil).  
T *Chrysomphalus aurantii*. 268, 1178.
- 412-581-951-1012.  
Benzene, chlorodithiocyanato-, CU; C<sub>6</sub>H<sub>4</sub>(NCS)<sub>2</sub>. (Chlorophenylene dithiocyanate). 575P, 1432.
- 412-951-1022.  
Hydroquinone dithiocyanate; C<sub>6</sub>H<sub>4</sub>(NCS)<sub>2</sub>. (*p*-Phenylene dithiocyanate). 575P, 1432.
- 412-951-1022.  
Resorcinol dithiocyanate; C<sub>6</sub>H<sub>4</sub>(NCS)<sub>2</sub>. (*m*-Phenylene dithiocyanate).  
50-60% T tree lices. 575P, 1432.
- 412-951-1023.  
Toluene, dithiocyanato-, CU; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>(NCS)<sub>2</sub>. (Tolylene dithiocyanate). 575P, 1432.
- 412-951-1024.  
Xylene, dithiocyanato-, (CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(NCS)<sub>2</sub>. (Xylene dithiocyanate). 575P, 1432.  
Note: Inorganic thiocyanates and isothiocyanates are given the numbers of 1405 and 1406.
- 440-521-992-950-1024.  
Methylene blue; (OH)<sub>2</sub>N(C<sub>12</sub>H<sub>8</sub>NS)(CH<sub>3</sub>)<sub>2</sub>Cl. (Methylthionine chloride; 2, 9-bisdimethylaminophenazonium chloride).  
T *Lucilia cuprina* larvae; NT clothes moth. 487, 849, 975, 1144, 1176.
- 440-571-851-950.  
1, 4, 2-Benzothiasine-3(4)-one, 6-chloro-; O:(C<sub>6</sub>H<sub>4</sub>NS)Cl.  
88% T codling moth larvae and 29% T mosquito larvae. 487, 1291.
- 440-571-924-1011.  
7-Dibenzo[*c,h*]phenothiasine, 7-acetyl-; (C<sub>6</sub>H<sub>4</sub>NS)COCH<sub>3</sub>. (*N*-Acetyl-2, 3, 9, 10-dibenzophenothiasine).  
T *Lucilia cuprina* larvae. 849.
- 440-571-950.  
3-Isophenothiasin-3-one; (C<sub>12</sub>H<sub>7</sub>NS):O. (Phenothiasone).  
100% T mosquito larvae and 94% T codling moth larvae. 487, 1291.
- 440-581-801-950-1024-1389.  
Phenazathionium methyl sulfate, 6-hydroxy-4, 5, 10-trimethyl-, HO(C<sub>12</sub>H<sub>8</sub>NS)(CH<sub>3</sub>)<sub>3</sub>SO<sub>3</sub>CH<sub>3</sub>. (4-Methyl-6-hydroxy-*N*-methyl-*S*-methyldiphenylamine sulfonium methoxysulfate). 526P.
- 440-581-950.  
1-Phenothiasinol; (C<sub>12</sub>H<sub>8</sub>NS)OH. (Phenothiasine, 4-hydroxy-).  
NT adult Colorado potato beetle. 606, 1432.
- 440-672-950.  
Thionine; (C<sub>12</sub>H<sub>7</sub>NS)(NH<sub>2</sub>)<sub>2</sub>? (Lauth's violet).  
NT mosquito larvae. 487.
- 440-801-950-951-1021-1291.  
Phenazathionium chloride, 10-methyl-5-phenyl-, CH<sub>3</sub>(C<sub>12</sub>H<sub>8</sub>NS)(Cl)C<sub>6</sub>H<sub>5</sub>. (*N*-Methyl-*S*-phenyldiphenylamine sulfonium chloride). 526P.
- 440-801-950-1025-1389.  
Phenazathionium methyl sulfate, 3, 5, 6, 10-tetra-methyl-, (CH<sub>3</sub>)<sub>4</sub>(C<sub>12</sub>H<sub>8</sub>NS)SO<sub>3</sub>CH<sub>3</sub>. (3, 6-Dimethyl-*N*-methyl-*S*-methyldiphenylamine sulfonium methoxysulfate). 526P.
- 440-924.  
2, 3-Naphthothiasine, CU; C<sub>12</sub>H<sub>9</sub>NS. 323.
- 440-924.  
7-Dibenzo[*c,h*]phenothiasine; C<sub>20</sub>H<sub>12</sub>NS. (2, 3, 9, 10-Dibenzo-phenothiasine).  
T *Lucilia cuprina* larvae. 849.
- 440-924-950.  
7-Benzothienophenothiasine; C<sub>12</sub>H<sub>11</sub>NS. (Thiophenyl  $\beta$ -naphthylamine;  $\beta$ -benzophenothiasine).  
NT Mexican bean beetle and Colorado potato beetle. 606, 1432.
- 440-924-950.  
12-Benzothienophenothiasine; C<sub>12</sub>H<sub>11</sub>NS. (Thiophenyl  $\alpha$ -naphthylamine;  $\alpha$ -benzophenothiasine).  
HT mosquito larvae; NT Mexican bean beetle and Colorado potato beetle. 487, 606, 1432.
- 440-950.  
Phenothiasine; C<sub>12</sub>H<sub>8</sub>NS. (Phenothiazine; thiodiphenylamine).  
T several species of insects. 487, 490, 546, 559, 606, 611, 723, 849, 1120, 1222P, 1233, 1329, 1432.
- 440-950.  
Phenothiasine, residues from, CU. (Thiodiphenylamine residues).  
80% T Mexican bean beetle. 606.
- 440-950-1011.  
Phenothiasine, 10-ethyl-, (C<sub>12</sub>H<sub>8</sub>NS)C<sub>2</sub>H<sub>5</sub>. (*N*-Ethylphenothiasine; 6-ethylphenothiasine).

- 53% T mosquito larvae and T *Lucilia cuprina* larvae. 487, 488, 849, 1233.
- 440-980-1021.  
Phenothiazine, 10-methyl-;  $(C_{12}H_8NS)CH_3$ . (N-Methyl thiodiphenylamine; phenothiazine, N-methyl). 48.5% T mosquito larvae and T *Lucilia cuprina* larvae; NT Mexican bean beetle. 487, 488, 606, 849, 1233, 1432.
- 440-980-1022.  
Phenothiazine, 3, 7-dimethyl-;  $(C_{12}H_8NS)(CH_3)_2$ . (3, 9-Dimethyl phenothiazine).  
T *Lucilia cuprina* larvae. 849.
- 440-980-1024.  
Phenothiazine, 1, 3, 7, 9-tetramethyl-;  $(C_{12}H_8NS)(CH_3)_4$ . (3, 5, 7, 9-Tetramethyl phenothiazine).  
T *Lucilia cuprina* larvae. 849.
- For other derivatives of phenothiazine, see:  
187-440-852-950.  
187-440-950-989.  
187-440-980-1011.  
187-440-980-1011-1022.
- 460-541-781-950-1011.  
Acetic acid, 2-benzothiasolylmercapto-;  $(C_7H_4NS)-SCH_2COOH$ . (Glycolic acid, thio-, 1-benzothiasole). 18P, 85P, 594P, 1178.
- 460-571-671.  
4-Thiasolidone, 2-amino-;  $O:(C_6H_4NS)NH_2$ .  
NT Mexican bean beetle. 606.
- 460-571-691-796-951-1023-1030.  
Rhodanine, 5-(p-dimethylaminobenzylidene)-;  $O:(C_6H_4NS):CHC_6H_4N(CH_3)_2$ ? (p-Dimethyl amino benzal rhodanine).  
NT *Bombyx mori* larvae. 559.
- 460-571-700.  
Pseudothiohydantoin;  $O:(C_6H_4NS):NH$ . (2-Imino-4-keto-tetrahydro-thiasole; 4-thiasolidone, 2-imino-).  
NT Mexican bean beetle at 10%. 18P, 85P, 594P, 595P, 596P, 606, 1178, 1432.
- 460-571-700-952.  
4-Thiasolidone, 3-phenyl-2-phenylimino-;  $O:(C_6H_4NS):(NC_6H_5)_2$ .  
NT mosquito larvae. 487.
- 460-571-796.  
Rhodanine;  $O:(C_6H_4NS)S$ . (2-Thio, 2, 4-thiasolidone).  
NT *Bombyx mori* larvae. 18P, 85P, 559, 594P, 595P, 596P, 1178, 1432.
- 460-572.  
2, 4(3, 5)-Thiasolidone;  $O:(C_6H_4NS):O$ . (2, 4-Diketo-tetrahydro-thiasole). 18P, 85P, 594P, 595P, 596P, 1178.
- 460-581-671-950.  
6-Benzothiasolol, 2-amino-;  $HO(C_7H_4NS)NH_2$ . (Benzothiasole, 2-amino-6-hydroxy-). 18P, 85P, 594P, 595P, 596P, 1178.
- 460-581-781-950-1027.  
Benzothiasoles, 2-hydroxyalkylmercapto-;  $(C_7H_4NS)SROH$ . 237P.
- 460-581-950.  
2-Benzothiasolol;  $(C_7H_4NS)OH$ . (Benzothiasole, 2-hydroxy-). (Incorrectly listed as 1-hydroxy).  
90% T aphids. 18P, 85P, 594P, 595P, 596P, 1178.
- 460-591-671-950-1011.  
Benzothiasole, 2-amino-6-ethoxy-;  $C_2H_5O(C_7H_4NS)-NH_2$ .  
30-40% T Colorado potato beetle and Mexican bean beetle. 301P, 606, 1432.
- 460-591-671-950-1011-1313.  
Benzothiasole, 2-amino-6-ethoxy-, fluosilicate;  $C_2H_5O(C_7H_4NS)NH_2.H_2SiF_6$ .  
99% T black chrysanthemum aphid and T Mexican bean beetle and Colorado potato beetle. 301P, 307P, 606, 1178, 1179.
- 460-591-781-950-1027.  
Benzothiasoles, 2-alkoxyalkylmercapto-;  $(C_7H_4NS)SROH$ . 237P.
- 460-591-791-950-1011.  
Benzothiasole, 6-ethoxy-2-mercapto-;  $C_2H_5O(C_7H_4NS)SH$ .  
NT Japanese beetle. 496, 1432.
- 460-591-950-1045.  
2-Benzothiasolol, and derivatives of, CU;  $(C_7H_4NS)OR$ . (Benzothiasoles).  
S is hydrogen or an atom or atom grouping which can replace hydrogen when it exercises its acidic functions. 85P, 1178.
- 460-671-851-950.  
Benzothiasole, 2-amino-6-chloro-;  $Cl(C_7H_4NS)NH_2$ .  
T Japanese beetle at 8 lbs./100 gal.; NT Colorado potato beetle and Mexican bean beetle. 496, 606, 1432.
- 460-671-924.  
Naphtho[2,1]thiasole, 2-amino-;  $(C_{11}H_6NS)NH_2$ . (2-Amino-naphthothiasole).  
10% T Mexican bean beetle. 606, 1432.
- 460-671-950-951-1021.  
Primuline;  $CH_3(C_7H_4NS)C_6H_4NH_2$ .  
NT screwworms. 156.
- 460-671-1021.  
Thiasole, 2-amino-4-methyl-;  $CH_3(C_6H_4NS)NH_2$ . (Sulfocyanpropimin). 18P, 85P, 594P, 595P, 596P, 1178.
- 460-672-791-950-951-1108.  
Benzothiasole, 2-mercapto-; compound with p-phenylenediamine;  $(C_7H_4NS)SH.H_2NC_6H_4NH_2$ . (p-Aminophenylammonium-2-benzothiasolyl sulfide).  
NT as mothproofing agent. 239.
- 460-672-791-950-951-1108.  
Benzothiasole, 2-mercapto-, compound with p-phenylenediamine;  $[(C_7H_4NS)SH]_2.C_6H_4(NH_2)_2$ . [(p-Phenylene-bis(ammonium-2-benzothiasolyl sulfide))].  
NT as mothproofing agent. 239.
- 460-672-950.  
Benzothiasole, 2, 5-diamino-;  $(C_7H_4NS)(NH_2)_2$ . (Benzothiasole, 1, 4-diamino-). 18P, 85P, 594P, 595P, 596P, 1178.
- 460-681-781-950-951-1021.  
Benzothiasole, 2-anilinomethylmercapto-;  $(C_7H_4NS)-SCH_2NHC_6H_5$ . ((Anilinomethyl)-1-benzothiasolyl sulphide).  
94% T codling moth larvae and 88% T mosquito larvae. 487, 1291.
- 460-681-781-950-951-1022.  
Benzothiasole, 2-(o-toluenomethylmercapto-;  $(C_7H_4NS)SCH_2NHC_6H_4CH_3$ . (1-Benzothiasolyl-(o-toluenomethyl) sulphide).  
75% T codling moth larvae. 1291.
- 460-681-781-950-951-1022.  
Benzothiasole, 2-(p-toluenomethylmercapto-;  $(C_7H_4NS)SCH_2NHC_6H_4CH_3$ . (1-Benzothiasolyl-(p-toluenomethyl) sulphide).  
79% T codling moth larvae and T mosquito larvae. 487, 1291.
- 460-681-950-951.  
Benzothiasole, 2-anilino-;  $(C_7H_4NS)NHC_6H_5$ . (2-(1-Anilinomethyl)benzothiasole).  
HT codling moth larvae; 8% T mosquito larvae. 487, 1291.
- 460-691-791-950-1022.  
Benzothiasole, 6-dimethylamino-2-mercapto-;  $HS(C_7H_4NS)(CH_3)_2$ .  
NT mosquito larvae. 487.
- 460-691-950-1045.  
Benzothiasole, 2-dialkylamino-, CU;  $(C_7H_4NS)NRR'$ . (Benzothiasoles). 85P, 1178.
- 460-691-1023.  
Thiasole, 2-dimethylamino-4-methyl-;  $(CH_3)_2N(C_6H_4NS)CH_3$ .  
90% T mosquito larvae. 487.
- 460-700-950.  
Benzothiasoline, 2-imino-;  $(C_7H_4NS):NH$ .  
HT codling moth at 4%; NT greenhouse red spider at 4%. 1481.
- 460-730-740-782-950-1021.  
Benzothiasole, 2, 2'-dithiobis-, compound with nicotine;  $[(C_7H_4NS)S]_2.C_{10}H_{14}N_2$ . 1432.
- 460-730-740-782-950-1023.  
Benzothiasole, 2, 2'-dithiobis[dimethyl-, compound with nicotine;  $[(CH_3)_2(C_7H_4NS)S]_2.C_{10}H_{14}N_2$ . (Mercaptoxylylthiasole, nicotine salt). 1432.
- 460-730-740-791-924-1021.  
Naphthothiasole, 2-mercapto-, compound with nicotine;  $[(C_{11}H_6NS)S]_2.C_{10}H_{14}N_2$ . 1432.
- 460-730-741-950-951-1021.  
Benzothiasole, 2-mercapto-6-phenyl-, compound with nicotine;  $C_6H_5(C_7H_4NS)SH.C_{10}H_{14}N_2$ . (2-Mercapto-6-phenylbenzothiasole, nicotine salt). 1264P, 1432.

- 480-780-740-791-950-1021.  
Benzothiazole, 2-mercapto-, compound with nicotine;  $(C_7H_4NS)SH.C_{10}H_{14}N_2$ . (2-Mercaptobenzothiazole, nicotine salt). 198, 1205P, 1284P, 1432.
- 480-730-740-791-950-1022.  
Benzothiazole, 2, 2'-dithiobis[methyl-, compound with nicotine;  $[CH_3(C_7H_4NS)S]_2.C_{10}H_{14}N_2$ . (Dithiylthiazyl disulfide, nicotine salt). 1432.
- 480-730-740-791-950-1022.  
Benzothiazole, 2-mercapto-5-methyl-, compound with nicotine;  $CH_3(C_7H_4NS)SH.C_{10}H_{14}N_2$ . (2-Mercapto-6-methylbenzothiazole, nicotine salt). 1178, 1284P.
- 480-781-950-951.  
Benzothiazole, 2-phenylmercapto-;  $(C_7H_4NS)SC_6H_5$ . 237P.
- 480-781-950-1045.  
Benzothiazole, 2-mercapto-, derivatives of;  $(C_7H_4NS)SR$ .  
R is hydrogen or an atom or atom grouping which can replace hydrogen when it exercises its acidic functions. 85P, 237P, 1178.
- 480-781-951-1027.  
Benzothiazole, 2-alkylmercapto-;  $(C_7H_4NS)SR$ .  
R is an alkyl group of not more than 6 carbon atoms or a hydroxyalkyl or alkoxyalkyl group and the  $C_6H_5$  group. 237P.
- 480-782-950.  
Benzothiazole, 2,2'-dithiobis;  $[C_7H_4NS)S]_2$ . [Bis(2-benzothiazolyl)disulfide].  
85% T codling moth larvae; NT mosquito larvae. 487.
- 480-791-950.  
Benzothiazole, 2-mercapto-;  $(C_7H_4NS)SH$ . (2-Benzothiazolethiol; o-thiocarbamidothiophenol).  
88% T mosquito larvae, T codling moth, and Japanese beetle; ST Colorado potato beetle and Mexican bean beetle. 85P, 172, 561, 606, 1178, 1291, 1432.
- 480-791-950-1021.  
Benzothiazole, 2-mercapto-5-methyl-;  $CH_3(C_7H_4NS)SH$ .  
100% T mosquito larvae. 487.
- 480-796-950-1011.  
Benzothiazole, 3-ethyl-2-thiono-?  $C_6H_5(C_7H_4NS):S?$  (N-Ethylbenzothiazolethione). 236P.
- 480-796-950-1021.  
Benzothiazole, 3-methyl-2-thiono-?  $CH_3(C_7H_4NS):S?$  (N-Methylbenzothiazolethione). 737P.
- 480-841-951-1011.  
Thiazole, 4-(p-bromophenyl)-2-ethyl-;  $BrC_6H_4(C_6HNS)C_2H_5$ . 1478.
- 480-841-951-1011-1176-1291.  
Thiazole, 4-(p-bromophenyl)-2-ethyl-, compound with mercuric chloride;  $BrC_6H_4(C_6HNS)C_2H_5.HgCl_2$ . 1478.
- 480-841-951-1021.  
Thiazole, 4-(p-bromophenyl)-2-methyl-;  $BrC_6H_4(C_6HNS)CH_3$ . 1478.
- 480-841-951-1021-1176-1291.  
Thiazole, 4-(p-bromophenyl)-2-methyl-, compound with mercuric chloride;  $BrC_6H_4(C_6HNS)CH_3.HgCl_2$ . 1478.
- 480-851-950-951.  
Benzothiazole, 5-chloro-2-phenyl-;  $Cl(C_7H_4NS)C_6H_5$ .  
76% T mosquito larvae. 172, 1178.
- 480-851-950-951.  
Benzothiazole, 6-chloro-2-phenyl-;  $Cl(C_7H_4NS)C_6H_5$ .  
88% T mosquito larvae. 172, 1178.
- 480-851-951-1011.  
Thiazole, 4-(p-chlorophenyl)-2-ethyl-;  $ClC_6H_4(C_6HNS)C_2H_5$ . 1478.
- 480-851-951-1011-1176-1291.  
Thiazole, 4-(p-chlorophenyl)-2-ethyl-, compound with mercuric chloride;  $ClC_6H_4(C_6HNS)C_2H_5.HgCl_2$ . 1478.
- 480-851-951-1021.  
Thiazole, 4-(p-chlorophenyl)-2-methyl-;  $ClC_6H_4(C_6HNS)CH_3$ . 1478.
- 480-851-951-1021-1176-1291.  
Thiazole, 4-(p-chlorophenyl)-2-methyl-, compound with mercuric chloride;  $ClC_6H_4(C_6HNS)CH_3.HgCl_2$ . 1478.
- 480-851-951-1021-1276.  
Thiazole, 4-(p-chlorophenyl)-2-methyl-hydrobromide;  $ClC_6H_4(C_6HNS)CH_3.HBr$ . 1432, 1478.
- 480-871-951-1011.  
Thiazole, 2-ethyl-4-(p-iodophenyl)-;  $IC_6H_4(C_6HNS)C_2H_5$ . 1478.
- 480-871-951-1011-1176-1291.  
Thiazole, 2-ethyl-4-(p-iodophenyl)-, compound with mercuric chloride;  $IC_6H_4(C_6HNS)C_2H_5.HgCl_2$ . 1478.
- 480-871-951-1021.  
Thiazole, 4-(p-iodophenyl)-2-methyl-;  $IC_6H_4(C_6HNS)CH_3$ . 1478.
- 480-871-951-1027-1176-1291.  
Thiazole, 4-(p-iodophenyl)-2-methyl-, compound with mercuric chloride;  $IC_6H_4(C_6HNS)CH_3.HgCl_2$ . 1478.
- 480-881-950.  
Benzothiazole, 2-halo-, CU;  $(C_7H_4NS)X$ . 374P.
- 480-881-976.  
Benzothiazole, 2-halo-, aryl derivatives of;  $R(C_7H_4NS)X$ . (Benzothiazoles, 2-halogenoaryl-). (Incorrectly listed as 1-halogenary). 374P, 681P, 1178.
- 480-950-951.  
Benzothiazole, 2-phenyl-;  $C_6H_5(C_7H_4NS)$ . (Benzylaminothiophenol).  
MT Japanese beetle, mosquito larvae, screwworms, and 35% T *Bombyx mori* larvae. 156, 172, 487, 559, 1178, 1432.
- 483-782-799-952.  
 $\Delta^1$ -, 3, 4-Thiodiazoline, 2, 2'-dithiobis [4-phenyl-5-thio-;  $[-SC:NN(C_6H_5)C(:S)S]$ . (Disulphide, 4-phenyl-5-thio-delta<sup>1</sup>-, 3, 4-thiodiazoline-2-).  
NT culicine mosquito larvae. 172, 1178.
- 483-791-799-951.  
 $\Delta^1$ -, 3, 4-Thiodiazoline-2-thiol, 4-phenyl-5-thio-;  $C_6H_5(C_6H_4S)(:S)SH$ . (Delta<sup>1</sup>-, 3, 4-thiodiazoline-2-mercaptan, 4-phenyl-5-thio-).  
NT culicine mosquito larvae. 172, 1178.
- 477-853-953-1021.  
Benzylamine, N-chloro-N-(2, 4, 6-trichlorophenyl)-;  $ClC_6H_2N(Cl)CH_2C_6H_5$ . (2, 4, 6-Trichlorophenyl benzylchloramine).  
HT tent caterpillar at 1%. 119.
- 521-853-1021.  
Methanesulfonyl chloride, trichloro-;  $CCl_3SOCl$ . (Perchloromethyl mercaptan).  
HT *Sitophilus granarius*; MT *Chrysomphalus aurantii* and *Hippodamia convergens*; NT *Sitophilus oryza*, *Tribolium*, and *Plodia* larvae. 268, 1042, 1110, 1178, 1180.
- 521-1001.  
1-Butanesulfonyl chloride;  $C_4H_9SOCl$ . (n-Butanesulphochloride).  
ST *Sitophilus oryza*. 1180.
- 521-1021.  
Thiophosgene;  $CSCl_2$ .  
Used for treating corn; NT *Hippodamia convergens*. 1110, 1128P, 1432.
- 541-551-581-951-1001-1022.  
Phthalic acid, 3-hydroxy-, butyl acid ester;  $HOC_6H_4(COOH)COOC_4H_9$ . (Phthalic acid, butyl ester, 3-hydroxy-).  
T as mothproofing agent. 870P, 1175.
- 541-551-671-951-1011.  
Phenol, p-amino-, oxalate;  $H_2NC_6H_4OOCOOH$ .  
NT codling moths. 915.
- 541-551-691-951-1011-1022.  
Phenol, p-dimethylamino-, oxalate;  $(CH_3)_2NC_6H_4OOCOOH?$  (p-Dimethylamine phenol oxalate).  
MT *Bombyx mori*. 561.
- 541-551-924-1001-1003-1023.  
4-Cyclohexene-1, 2-dicarboxylic acid, 3, 6-endoethylene-3-isopropyl-6-methyl-, butyl acid ester;  $C_6H_9(C_6H_9)(COOH)COOC_4H_9$ . (Butyl ester of 3-isopropyl 6-methyl 3, 6-endoethylene delta<sup>4</sup>-tetrahydro-phthalic acid).  
Fly spray. 112, 948P.
- 541-551-924-1003-1011-1023.  
4-Cyclohexene-1, 2-dicarboxylic acid, 3, 6-endoethylene-3-isopropyl-6-methyl-, ethyl acid ester;  $C_6H_9O_4$ . (Ethyl ester of 3-isopropyl 6-methyl 3, 6-endoethylene delta<sup>4</sup>-tetrahydrophthalic acid).  
Fly spray. 112, 948P.
- 541-551-924-1003-1024.  
4-Cyclohexene-1, 2-dicarboxylic acid, 3, 6-endoethylene-3-isopropyl-6-methyl-, methyl acid ester;  $C_6H_9O_4$ . (Methyl ester of 3-isopropyl 6-methyl 3, 6-endoethylene delta<sup>4</sup>-tetrahydrophthalic acid).  
Fly spray. 112, 948P.

- 541-551-924-1004-1023.  
4-Cyclohexene-1, 2-dicarboxylic acid, 3, 6-endoethyl-ene-3-isopropyl-6-methyl-, propyl acid ester;  $C_{17}H_{32}O_4$ . (Propyl ester of 3-isopropyl 6-methyl 3, 6-endoethylene delta-tetrahydrophthalic acid).  
Fly spray. 112, 948P.
- 541-551-924-1011-1021.  
2-Naphthoic acid, acetoxy-, CU;  $CH_3COOC_{10}H_7COOH$ . (This compound was given as 2-acetoxy-2-naphthoic acid, which is chemically impossible).  
T screwworm larvae at 0.67%. 944.
- 541-551-951-1001-1022.  
Phthalic acid, butyl acid ester;  $HOOCCH_2CH_2COOC_4H_9$ . (n-Butyl phthalic acid).  
NT *Bombyx mori*. 559.
- 541-551-951-1011-1021.  
Acetylsalicylic acid;  $CH_3COOC_6H_4COOH$ . (Acetoal; acetosalin; acetosalic acid, acetosalicylic acid; acetyl sal; aletodin; anglopyrin; aspirin; coxpyrin; helicon; salacotin; xaxa).  
T screwworms and Japanese beetles; NT *Tineola biselliella* and *Attagenus piceus*. 156, 739, 1008, 1176.
- 541-551-951-1023.  
Phthalic acid, methyl acid ester;  $C_6H_4(COOCH_3)_2$ .  
T as mothproofing agent. 407P, 868P, 1175.
- 541-551-954-1027-1110.  
Alginic acid, antimony salt;  $[OHCC(CHOH)nCOO]_nSb$ . (Antimony alginate).  
T as mothproofing agent. 1036P, 1037P, 1176.
- 541-551-1045.  
Acids, aldehydic, CU. (Aldehyde carboxylic acids).  
T as mothproofing agent. 410P, 1175.
- 541-571-581-593-625-950-951-1003-1012-1022-1030.  
Derris acid;  $HOOCCH_2(C_6H_5O)_2C_6H_5CH_2CO(C_6H_5O)(OH)C_6H_5$ . Associated with rotenone. 618.
- 541-571-582-593-620-950-951-1012-1024.  
Toxicarolic acid;  $HOOCCH_2O(C_6H_5O)_2C_6H_5CH_2CO(C_6H_5O)(OH)_2(C_6H_5)_2$ . Associated with rotenone. 618.
- 541-571-591-953-1023-1142.  
Benzoic acid, 2-(2'-benzyl-5'-methylbenzoyl)- cupric salt;  $[C_6H_5CH_2C_6H_4(CH_3)COC_6H_4COO]_2Cu$ .  
Fly spray. 94P, 112, 688P, 690P, 693P, 694P, 696P.
- 541-571-592-610-740-950-983-1011-1030.  
Oleic acid, brucine salts. (Brucine oleate).  
T as mothproofing agent. 1164P, 1165P, 1175, 1179.
- 541-571-592-620-625-852-950-1003-1011-1022-1030.  
Rotenone, dichloroacetic acid compound;  $C_{33}H_{32}O_6 \cdot C_2H_3Cl_2$ . 760P.
- 541-571-593-620-950-951-1012-1024.  
Deguelic acid;  $HOOCCH_2O(C_6H_5O)_2C_6H_5CH_2CO(C_6H_5O)(CH_3)_2$ . Associated with rotenone. 618.
- 541-571-952-1022.  
Benzoic acid, o-benzoyl-;  $HOOCCH_2CH_2COC_6H_5$ . (o-Benzoylbenzoic acid).  
NT mosquitoes. 172.
- 541-571-999.  
Levulinic acid;  $CH_3COCH_2CH_2COOH$ . (4-Oxopentanoic acid; acetopropionic acid;  $\gamma$ -ketovaleric acid).  
MT codling moths. 1285.
- 541-581-591-700-952-1023.  
Benzoic acid, p-(3-methoxy-4-hydroxybenzylidene) amino-;  $HOOCCH_2CH_2N:CHC_6H_4(OH)OCH_3$ . (3-Methoxy-4-hydroxybenzylidene-p-aminobenzoic acid).  
NT corn borer. 1120.
- 541-581-591-720-730-950-983-1011-1022-1033.  
Oleic acid, quinine salt;  $C_{18}H_{34}O_2 \cdot N_9H_{17}O_4$ . (Quinine oleate).  
T as mothproofing agent (739); NT as mothproofing agent (985). 739, 985, 1176.
- 541-581-591-720-730-950-983-1011-1022-1033.  
Oleic acid, quinidine salt;  $C_{18}H_{34}O_2 \cdot N_9H_{17}O_4$ . (Quinidine oleate).  
NT *Tineola biselliella* and *Attagenus piceus*. 739.
- 541-581-592-620-950-1023.  
Hydroxynerotic acid;  $(CH_3O)_2(C_6H_5O)(OH)COOH$ . Associated with rotenone. 618.
- 541-581-671-951-1003.  
l-Tyrosine;  $HOC_6H_4CH_2CH(NH_2)COOH$ .  
NT codling moths. 915.
- 541-581-671-951-1021-1291.  
Salicylic acid, 5-amino-, hydrochloride;  $HOC_6H_4COOH \cdot NH_4Cl$ .  
NT European corn borer. 1122.
- 541-581-720-730-950-983-1011-1021-1033.  
Oleic acid, cinchonine salt;  $C_{18}H_{34}O_2 \cdot HOOCOC_{17}H_{31}$ . (Cinchonine oleate).  
T as mothproofing agent. 739, 1176.
- 541-581-720-730-950-983-1011-1021-1033.  
Oleic acid, cinchonidine salt;  $C_{18}H_{34}O_2 \cdot HOOCOC_{17}H_{31}$ . (Cinchonidine oleate).  
T as mothproofing agent; non-repellent to clothes moths. 739, 1176.
- 541-581-730-740-951-1022.  
Salicylic acid, nicotine salt;  $(C_{10}H_{14}N_2)HOOCCH_2OH$ ? (Nicotine salicylate).  
NT tobacco worm moths. 553.
- 541-581-730-740-1003-1021.  
Lactic acid, nicotine salt;  $CH_3CH(OH)COOH \cdot C_{10}H_{14}N_2$ . (Nicotine lactate).  
T *Rhopalosiphum rubis*. 1267A.
- 541-581-730-950-951-1021.  
Salicylic acid, quinoline ester;  $(C_8H_7N)OOCCH_2OH$ ? (Quinoline salicylate).  
MT *Bombyx mori*; NT *Tineola biselliella* and *Attagenus piceus*. 561, 739, 1176.
- 541-581-740-950-1021.  
2-Indolecarboxylic acid;  $HO(C_6H_5N)COOH$ . (Indoxyllic acid). 357P.
- 541-581-781-881-951?  
Acids, haloalkoxyphenyl-, CU;  $X(OH)(COOH)XC_6H_3(1,2,3,5)$ .  
T clothes moths. 875P.
- 541-581-791-975.  
Acids, carboxylic-ortho-hydroxy or derivatives. (Ortho-hydroxy-carboxylic acid or derivatives in which the para position to the hydroxyl group is occupied by sulphur).  
T as mothproofing agent. 459P, 1176.
- 541-581-800-851-951-1021.  
Salicylic acid, 5-chloro-, sulphurised. (Sulphurised 1-oxy-4-chloro-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 876P, 1176, 1179, 1324P.
- 541-581-800-924-1021.  
1-Naphthoic acid, 2-hydroxy-, sulphurised. (Sulphurised 2-oxy-naphthoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 876P, 1176.
- 541-581-800-924-1021.  
3-Naphthoic acid, 2-hydroxy-, sulphurised. (Sulphurised 2-hydroxy-3-naphthoic acid).  
T clothes moths. 875P, 1179.
- 541-581-800-951-1021.  
Salicylic acid, sulphurised. (Sulphurised 1-oxy-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 876P, 1176.
- 541-581-800-951-1022.  
Salicylic acid, 3-methyl-, sulphurised. (Sulphurised 1-hydroxy-6-methyl-2-benzoic acid).  
T as mothproofing agent. 875P, 1176, 1179, 1324P.
- 541-581-800-951-1022.  
Salicylic acid, 5-methyl-, sulphurised. (Sulphurised 1-oxy-4-methyl-2-benzoic acid; sulfurised 2, 5-cresotic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 1176, 1179.
- 541-581-800-1045.  
Carboxylic acids, hydroxy-, sulphurised, CU. (Sulphurised oxy carbonic acids).  
T as mothproofing agent. 875P, 1179.
- 541-581-841-951-1023.  
Salicylic acid, 5-bromo-3-methyl;  $HOC_6H_4(Br)(CH_3)COOH$ . (1-Oxy-6-methyl-4-bromo-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 876P, 1176, 1179, 1324P.
- 541-581-851-924-1021.  
2-Naphthoic acid, 4-chloro-3-hydroxy-;  $HO(Cl)C_{10}H_7COOH$ . (1-Chloro-2-hydroxy-3-naphthoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 1176, 1179.
- 541-581-851-951-1021.  
Salicylic acid, 5-chloro-;  $HOC_6H_4(Cl)COOH$ . (1-Oxy-4-chloro-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 1176, 1179, 1324P.

- 541-581-951-1022.  
2, 3-Cresotic acid, 5-chloro-;  $\text{HOOC}_6\text{H}_3(\text{Cl})(\text{CH}_3)_2\text{COOH}$ . (Salicylic acid, 5-chloro-3-methyl-; 1-oxy-6-methyl-4-chloro-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 1176, 1179, 1324P.
- 541-581-951-1022.  
2, 5-Cresotic acid, 3-chloro-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{Cl})(\text{OH})\text{COOH}$ . (Cresotic acid, chloro-, chlorocresotinic acid).  
T as mothproofing agent. 397P, 432P, 467P, 643P, 1176, 1179.
- 541-581-952-951-1021.  
Salicylic acid, 3, 5-dichloro-;  $\text{HO}(\text{Cl})_2\text{C}_6\text{H}_3\text{COOH}$ . (1-Hydroxy-4, 6-dichloro-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 875P, 876P, 1176, 1179.
- 541-581-952-951-1021.  
Salicylic acid, dichloro-, CU;  $\text{HO}(\text{Cl})_2\text{C}_6\text{H}_3\text{COOH}$ .  
T as mothproofing agent. 423P, 445P, 456P, 1175, 1179.
- 541-581-953-951-1011-1021-1244.  
p-Cresol, 2, 3, 6-trichloro-, zinc acetate compound;  $\text{Zn}(\text{OOCCH}_3)_2 \cdot \text{HOC}_6\text{H}_2(\text{Cl})_3\text{CH}_3$ . (Zinc acetate of 2, 3, 5-trichloro-4-hydroxy-1-methylbenzene). 362P.
- 541-581-972-983-1218-1389.  
Stearic acid, 9, 10-diiodo-7-hydroxy-, sulfate, sodium salt. 1494.
- 541-581-981-951-1021.  
Salicylic acids, o-hydroxy-, halogenated. (Phenol-o-carboxylic acids, halogenated).  
T as mothproofing agent. 871P, 1179.
- 541-581-981-975.  
Salicylic acid, 5-halo-, and derivatives. (Orthohydroxy-carboxylic acid or derivatives in which the para position to the hydroxyl group is occupied by halogen).  
T as mothproofing agent. 459P, 1176.
- 541-581-924.  
1-Naphthoic acid, 2-hydroxy-;  $\text{HOC}_{10}\text{H}_6\text{COOH}$ . (2-Oxynaphthoic acid).  
T as mothproofing agent. 459P, 1176.
- 541-581-924-1021.  
2-Naphthoic acid, 3-hydroxy;  $\text{HOC}_{10}\text{H}_6\text{COOH}$ .  
NT *Bombyx mori*. 559.
- 541-581-951-1011-1177.  
Phenol, acetoxymercuri-, CU;  $\text{HOC}_6\text{H}_4\text{HgOOCCH}_3$ ? (Mercury phenol acetate). 379P.
- 541-581-951-1021.  
Salicylic acid;  $\text{HOC}_6\text{H}_4\text{COOH}$ . (o-Hydroxybenzoic acid).  
T screwworms, *Orthopodomyia signifer*, T *Lucilia cuprina* at 1%, and T as mothproofing agent; NT clothes moth (985). 156, 462P, 471P, 849, 895, 985, 1175, 1176, 1363P.
- 541-581-951-1021.  
Salicylic acids, methyl and/or hydroxy substituted. (Non-halogenated, non-sulphonated hydroxy carboxylic acid, or a substitution product thereof; salicylic acid, methyl hydroxy benzoic acids and resorcylic acid).  
T as mothproofing agent. 462P, 471P, 1176.
- 541-581-951-1021-1045.  
Salicylic acids, substituted, CU.  
T as mothproofing agent. 459P, 465P, 875P, 1176, 1179.
- 541-581-951-1021-1124.  
Salicylic acid, cadmium salt;  $\text{Cd}(\text{O}_2\text{H}_5\text{O}_2)_2\text{H}_2\text{O}$ . (Cadmium salicylate).  
NT *Bombyx mori*. 561.
- 541-581-951-1021-1166.  
Salicylic acid, lead salt;  $(\text{HOC}_6\text{H}_4\text{COO})_2\text{Pb}$ . (Lead salicylate).  
NT codling moths. 915.
- 541-581-951-1021-1196.  
Salicylic acid, potassium salt;  $\text{HOC}_6\text{H}_4\text{COOK}$ . (Potassium salicylate).  
ST *Pieris rapae*. 635.
- 541-581-951-1021-1218.  
Salicylic acid, sodium salt;  $\text{HOC}_6\text{H}_4\text{COONa}$ . (Sodium salicylate).  
T *Aphis rumicis*. 1152.
- 541-581-951-1021-1220.  
Salicylic acid, strontium salt;  $(\text{HOC}_6\text{H}_4\text{COO})_2\text{Sr}$ . (Strontium salicylate).  
T as mothproofing agent. 422P, 430P, 869P, 1175.
- 541-581-951-1021-1244.  
Salicylic acid, zinc salt;  $(\text{HOC}_6\text{H}_4\text{COO})_2\text{Zn}$ . (Zinc salicylate).  
ST codling moths. 915.
- 541-581-951-1022.  
3, 4-Cresotic acid;  $\text{CH}_3\text{C}_6\text{H}_3(\text{OH})\text{COOH}$ . (1-Hydroxy, 2-methyl, 4-benzoic acid; p-cresotic acid; p-cresotinic acid; p-homosalicylic acid; 4-hydroxytoluene-3-carboxylic acid; cresotic acid; 5-methylhomosalicylic acid; 1-methylphenol(4)-carboxylic acid; hydroxy-methylbenzoic acid).  
T as mothproofing agent. 329P, 331P, 1176.
- 541-581-951-1022.  
Salicylic acid, 5-methyl-;  $\text{CH}_3\text{C}_6\text{H}_3(\text{OH})\text{COOH}$ . (1-Oxy-4-methyl-2-benzoic acid).  
T as mothproofing agent. 459P, 1176.
- 541-581-951-1022.  
Benzoic acids, hydroxy, methyl-, CU;  $\text{HOC}_6\text{H}_3(\text{CH}_3)_2\text{COOH}$ . (Methyl hydroxy benzoic acids).  
T as mothproofing agent. 1175, 1363P.
- 541-581-951-1023.  
Salicylic acid, 3, 5-dimethyl-;  $(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{OH})\text{COOH}$ . (1-Oxy-4:6-dimethyl-2-benzoic acid).  
T as mothproofing agent. 459P, 465P, 466P, 876P, 1176.
- 541-581-952-1011.  
Benzilic acid;  $(\text{C}_6\text{H}_5)_2\text{C}(\text{OH})\text{COOH}$ . (Diphenylglycolic acid; diphenylmethanolmethyl acid).  
T as mothproofing agent; ST screwworms. 156, 329P, 332P, 1176.
- 541-581-954-1021-1193.  
Phosphonium salicylate, benzyltriphenyl-;  $(\text{C}_6\text{H}_5\text{CH}_2)_3\text{P}(\text{OOCCH}_3)_2\text{H}_2\text{O}$ .  
T as mothproofing agent. 871P, 1179.
- 541-581-975.  
Acids, carboxylic, hydroxyaromatic.  
T as mothproofing agent. 456P, 1179.
- 541-581-980-1130.  
Coccoric acid, cerium salt;  $[\text{CeO}_4\text{H}_6(\text{OH})\text{COO}]_4\text{Ce}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1164.  
Coccoric acid, lanthanum salt;  $[\text{CeO}_4\text{H}_6(\text{OH})\text{COO}]_4\text{La}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1180-1198.  
Coccoric acid, didymium salt. (Didymium is a mixture of neodymium and praseodymium).  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1228.  
Coccoric acid, thallium salt;  $\text{CeO}_4\text{H}_6(\text{OH})\text{COOTl}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1230.  
Coccoric acid, thorium salt;  $[\text{CeO}_4\text{H}_6(\text{OH})\text{COO}]_4\text{Th}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1236.  
Coccoric acid, titanium salt;  $[\text{CeO}_4\text{H}_6(\text{OH})\text{COO}]_4\text{Ti}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1240.  
Coccoric acid, uranium salt;  $[\text{CeO}_4\text{H}_6(\text{OH})\text{COO}]_4\text{U}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-980-1245.  
Coccoric acid, zirconium salt;  $[\text{CeO}_4\text{H}_6(\text{OH})\text{COO}]_4\text{Zr}$ ?  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1130.  
Ricinoleic acid, cerium salt;  $[\text{C}_{17}\text{H}_{33}(\text{OH})\text{COO}]_4\text{Ce}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1164.  
Ricinoleic acid, lanthanum salt;  $[\text{C}_{17}\text{H}_{33}(\text{OH})\text{COO}]_4\text{La}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1198.  
Ricinoleic acid, didymium salt. (Didymium is a mixture of neodymium and praseodymium).  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1228.  
Ricinoleic acid, thallium salt;  $[\text{C}_{17}\text{H}_{33}(\text{OH})\text{COO}]_4\text{Ti}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1230.  
Ricinoleic acid, thorium salt;  $[\text{C}_{17}\text{H}_{33}(\text{OH})\text{COO}]_4\text{Th}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1236.  
Ricinoleic acid, titanium salt;  $[\text{C}_{17}\text{H}_{33}(\text{OH})\text{COO}]_4\text{Ti}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-581-983-1030-1240.  
Ricinoleic acid, uranium salt;  $[\text{C}_{17}\text{H}_{33}(\text{OH})\text{COO}]_4\text{U}$ .

- T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-581-983-1030-1245.  
Ricinoic acid, zirconium salt;  $[C_{17}H_{33}(OH)COO]_4Zr$ .
- T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-581-1003.  
Lactic acid,  $CH_3CHOHCOOH$ .  
ST *Lucilia cuprina*; NT *Orthopodomyia signifer*. 849, 895.  
541-581-1003-1110.  
Lactic acid, antimony salt (exact constitution questionable). (Antimony lactate). 987P.  
541-581-1003-1311.  
Lactic acid, fluoboro-;  $(BF_4)CH_3CH(OH)COOH$ .  
T as mothproofing agent. 634P, 1175, 1400P.  
541-581-1011-1311.  
Glycolic acid, fluoboro-;  $(BF_4)(HOCH_2COOH)$ .  
T as mothproofing agent. 1175, 1400P.  
541-582-665-953-1021.  
Salicylic acid, 5-*p*-(4-hydroxyphenyl)-phenylazo-;  $HOC_6H_4N:NC_6H_4C_6H_4(OH)COOH$ . (5-[*p*-(*p*-Hydroxyphenyl)-phenylazo]-salicylic acid).  
NT mosquitoes. 487.  
541-582-720-730-950-951-1011-1022-1030.  
Salicylic acid, cinchonine ester;  $C_{19}H_{22}NaO_7C_7H_5O_5$ .  
HT screwworms; ST silkworms. 156, 561.  
541-582-951-1021.  
 $\alpha$ -Resorcylic acid;  $(HO)_2C_6H_4COOH$ . ( $\alpha$ -Resorcylic acid is 3, 5-dihydroxybenzoic acid and  $\beta$ -resorcylic acid is 2, 4-dihydroxybenzoic acid).  
T as mothproofing agent. 462P, 1175, 1176, 1363P.  
541-582-951-1021.  
 $\beta$ -Resorcylic acid;  $(HO)_2C_6H_4COOH$ . (Benzoic acid, 2, 4-dihydroxy-).  
T as mothproofing agent. 462P, 471P, 1176.  
541-582-983-1130.  
Stearic acid, dihydroxy-, cerium salts;  $[C_{17}H_{33}(OH)_2COO]_3Ce$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1164.  
Stearic acid, dihydroxy-, lanthanum salts;  $[C_{17}H_{33}(OH)_2COO]_3La$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1180-1198.  
Stearic acid, dihydroxy-, didymium salts. (Didymium is a mixture of neodymium and praseodymium).  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1228.  
Stearic acid, dihydroxy-, thallium salts;  $[C_{17}H_{33}(OH)_2COO]_3Th$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1230.  
Stearic acid, dihydroxy-, thorium salts;  $[C_{17}H_{33}(OH)_2COO]_4Th$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1236.  
Stearic acid, dihydroxy-, titanium salts;  $[C_{17}H_{33}(OH)_2COO]_4Ti$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1240.  
Stearic acid, dihydroxy-, uranium salts;  $[C_{17}H_{33}(OH)_2COO]_4U$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-582-983-1245.  
Stearic acid, dihydroxy-, zirconium salts;  $[C_{17}H_{33}(OH)_2COO]_4Zr$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
541-583-951-1021.  
Gallic acid;  $(HO)_3C_6H_2COOH$ . (3, 4, 5-Trihydroxybenzoic acid).  
T screwworms at 0.33-0.67%; NT *Orthopodomyia signifer*. 156, 895.  
541-591-951-951-1021.  
Benzoic acid, 2-chloro-4-methoxy-;  $(CH_3O)ClC_6H_3COOH$ . 359P.  
541-591-924-1022.  
1-Naphthalic acid, 2-methoxy-;  $CH_3OC_{10}H_6COOH$ . 359P.  
541-591-951-1011.  
Acetic acid, phenoxy-;  $C_6H_5OCH_2COOH$ . (Glycolic acid phenyl ether; phenoxyacetic acid).  
ST screwworms at 0.67%. 156.  
541-591-951-1023.  
Benzoic acid *o*-methoxy-;  $CH_3OC_6H_4COOH$ . (Salicylic acid methyl ether).  
NT *Bombyx mori*. 561.  
541-591-951-1022.  
Anisic acid;  $CH_3OC_6H_4COOH$ . (*p*-Methoxybenzoic acid).  
ST screwworms at 0.67%. 156.  
541-591-952-1011-1021-1177.  
Acetic acid, benzoylphenylmercuric salt;  $C_6H_5CH_2OC_6H_5HgOOCCH_3$ . (Acetic acid, phenylmethoxyphenylmercuric salt).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.  
541-591-952-1022-1142.  
Benzoic acid, *o*-benzyloxy-, copper salt;  $(C_6H_5CH_2OC_6H_4COO)_2Cu$ . (Benzoic acid, *o*-phenylmethoxy-, copper salt).  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.  
541-591-952-1022-1244.  
Benzoic acid, *o*-benzyloxy-, zinc salt;  $(C_6H_5CH_2OC_6H_4COO)_2Zn$ . (Benzoic acid, *o*-phenylmethoxy-, zinc salt).  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.  
541-592-620-950-1023.  
Netoric acid;  $C_{13}H_{14}O_8$ .  
Associated with rotenone. 618.  
541-592-620-950-1023.  
Dehydronetoric acid;  $C_{13}H_{14}O_8$ .  
Associated with rotenone. 618.  
541-593-951-1024.  
Benzoic acid, 3, 4, 5-trimethoxy-;  $(CH_3O)_3C_6H_2COOH$ . (Trimethyl gallic acid; gallic acid trimethyl ether).  
ST screwworms at 0.67%; NT silkworms. 156, 561.  
541-625-950-1030.  
2-Benzofurancarboxylic acid;  $(C_6H_5O)COOH$ . (Coumarilic acid; coumarone carboxylic acid).  
NT European corn borer. 357P, 1122.  
541-625-1021.  
2-Furancarboxylic acid;  $(C_6H_5O)COOH$ . (Furoic acid, pyromucic acid).  
NT *Bombyx mori*. 357P, 559.  
541-626-700-950-951-1022.  
Benzoic acid, *p*-amino-, *N*-(3, 4-methylenedioxybenzylidene)-;  $HOOC_6H_4N:CH(C_6H_5O_2)$ . (3, 4-Methylene oxybenzal-*p*-amino benzoic acid).  
HT corn borer. 1120.  
541-626-950-1003-1030.  
Cinnamic acid, 3, 4-methylenedioxy-;  $(CH_3O)_2C_6H_3CH:CHCOOH$ .  
NT European corn borer. 1122.  
541-657-951-1021.  
Benzoic acid, *p*-phenylhydrazino;  $C_6H_5(NH)_2C_6H_4COOH$ .  
ST *Bombyx mori*. 559.  
541-659-952-1011-1022.  
Benzoic acid, *N*-ethylbenzylidenehydrazono;  $C_6H_5CH:NN(C_6H_5)C_6H_4COOH$ . (Benzylidenephénylethylhydrazono carboxylic acid).  
T as mothproofing agent. 873P, 1176.  
541-659-952-1023.  
Phthalic acid, *N*-methylphenylhydrazono;  $(COOH)_2C_6H_4CH:NN(CH_3)(C_6H_5)$ . (Phthalic acid phenylmethyl hydrazono).  
T as mothproofing agent. 873P, 1176.  
541-665-691-952-1023.  
Benzoic acid, *p,p'*-azodi-;  $(NC_6H_4COOH)_2$ . (*p,p'*-Azobis-(Benzoic acid)-).  
MT corn borer. 156, 1120.  
541-668-952-983-1025.  
Guanidine, xylol-, oleate;  $[(CH_3)_2C_6H_4NH:]_2C:(NH)C_{17}H_{33}COOH$ .  
T as mothproofing agent. 192P, 1179.  
541-668-975-1021-1027.  
Guanidines, di-aryl substituted, fatty acid salts;  $RNHC:(NH)NHR'.HOOCR''$ .  
T as mothproofing agent. 192P, 1179.  
541-668-1011-1022.  
Creatine;  $H_2NC:(NH)N(CH_2)CH_2COOH$ . (Methyl guanidino-acetic acid).  
NT Colorado potato beetle, Mexican bean beetle, and as mothproofing agent. 606, 739, 1176.

- 541-671-781-851-951-1011.  
Benzenethiol, 2-amino-, 4-chloro-;  $\text{ClC}_6\text{H}_4(\text{NH}_2)\text{-SCH}_2\text{COOH}$ . [(2-Amino-4-chlorophenylmercapto)acetic acid].  
HT mosquito larvae. 487.
- 541-671-872-951-1021.  
Anthrillio acid, 3, 5-diiodo-;  $\text{HOOCCH}_2(\text{NH}_2)\text{I}_2$ . (Benzoic acid, amino-3, 5-diiodo-).  
No promise as a tannic acid. 110, 653.
- 541-671-951-1003.  
dl-Phenylalanine;  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}(\text{NH}_2)\text{COOH}$ .  
ST codling moths. 915.
- 541-671-951-1011.  
Aniline acetate;  $\text{C}_6\text{H}_5\text{NH}_2\text{HOOCCH}_3$ .  
ST *Tenebrio molitor*. 841.
- 541-671-951-1021.  
Anthrillio acid;  $\text{NH}_2\text{C}_6\text{H}_4\text{COOH}$ . (o-Amino benzoic acid).  
T codling moths and screwworms; ST oriental peach moths. 156, 915, 1291.
- 541-671-951-1021.  
Benzoic acid, p-amino-;  $\text{H}_2\text{NC}_6\text{H}_4\text{COOH}$ . (p-Aminobenzoic acid).  
NT codling moths. 915.
- 541-671-997.  
Leucine;  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}(\text{NH}_2)\text{COOH}$ .  
ST oriental peach moths. 1094.
- 541-671-997.  
Norleucine;  $\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{NH}_2)\text{COOH}$ . (α-Aminocaproic acid).  
NT *Bombyx mori*. 561.
- 541-671-1003.  
dl-Alanine;  $\text{CH}_3\text{CH}(\text{NH}_2)\text{COOH}$ .  
NT codling moths. 915.
- 541-681-851-952-1021.  
Anthrillio acid, N-(m-chlorophenyl)-;  $\text{HOOCCH}_2\text{-NHCH}_2\text{Cl}$ . (N-(m-chlorophenyl)-anthranilic acid).  
MT mosquito larvae. 487.
- 541-681-851-952-1021.  
Anthrillio acid, N-(o-chlorophenyl)-;  $\text{HOOCCH}_2\text{-NHCH}_2\text{Cl}$ . (N-(o-chlorophenyl)-anthranilic acid).  
MT Mosquito larvae. 487.
- 541-681-951-1011.  
Glycine, N-phenyl-;  $\text{C}_6\text{H}_5\text{NHCH}_2\text{COOH}$ . (Anilinoacetic acid; α-toluic acid, α-amino-).  
NT screwworms. 156.
- 541-681-951-1022.  
Anthrillio acid, N-methyl-;  $\text{CH}_3\text{NHC}_6\text{H}_4\text{COOH}$ . (Methylanthranilic acid).  
NT *Culex quinquefasciatus*. 157.
- 541-681-952-1021.  
Anthrillio acid, N-phenyl-;  $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_4\text{COOH}$ . (o-Anilinobenzoic acid; phenylaminobenzoic acid).  
ST *Culex quinquefasciatus*; NT screwworms. 156, 157.
- 541-681-952-1022.  
Anthrillio acid, N-(m-tolyl)-;  $\text{HOOCCH}_2\text{NHC}_6\text{H}_4\text{CH}_3$ .  
MT mosquito larvae. 487.
- 541-681-952-1022.  
Anthrillio acid, N-(o-tolyl)-;  $\text{HOOCCH}_2\text{NHC}_6\text{H}_4\text{CH}_3$ .  
MT mosquito larvae. 487.
- 541-681-952-1022.  
Anthrillio acid, N-(p-tolyl)-;  $\text{HOOCCH}_2\text{NHC}_6\text{H}_4\text{CH}_3$ .  
MT mosquito larvae. 487.
- 541-696-1011-1023-1291.  
Betaine hydrochloride;  $\text{Cl}(\text{CH}_3)_3\text{NCH}_2\text{COOH}$ . (Hydrochloride of trimethyl glycine; oxyneurine; lycine).  
T *Aphis rumicis* and *atrahant* for oriental peach moth; NT *Tineola biselliella* and *Attagenus piceus*. 739, 1094, 1152, 1176.
- 541-696-1011-1023-1450.  
Betaine salts, CU.  
T as mothproofing agent. 823P, 1176.
- 541-701-1003-1109.  
Acetic acid, cyano-, ammonium salt;  $(\text{CN})\text{CH}_2\text{COONH}_4$ .  
T *Aphis rumicis*. 1152.
- 541-730-740-853-1011-1021.  
Acetic acid, trichloro-, nicotine salt;  $\text{Cl}_3\text{CCOOH}$ . ( $\text{C}_{10}\text{H}_{14}\text{N}_2$ ). (Nicotine trichloroacetate).  
T *Rhopalosiphum ribis*. 1267A.
- 541-730-740-983-1021.  
Stearic acid, nicotine salt;  $\text{C}_{17}\text{H}_{35}\text{COOH}$ . ( $\text{C}_{10}\text{H}_{14}\text{N}_2$ ).  
MT *Aphis rumicis* at 0.1%. 628.
- 541-730-740-983-1021-1030.  
Oleic acid, nicotine salt;  $\text{C}_{17}\text{H}_{33}\text{COOH}$ . ( $\text{C}_{10}\text{H}_{14}\text{N}_2$ ).  
HT *Aphis rumicis*; T greenhouse insects. 628, 1007A.
- 541-730-740-983-1021-1033.  
Linoleic acid, nicotine salt;  $\text{C}_{17}\text{H}_{31}\text{COOH}$ . ( $\text{C}_{10}\text{H}_{14}\text{N}_2$ ). (Nicotine linoleate).  
HT *Aphis rumicis* at 0.1%. 628.
- 541-730-740-989-1021.  
Lauric acid, nicotine salt;  $\text{C}_{11}\text{H}_{23}\text{COOH}$ . ( $\text{C}_{10}\text{H}_{14}\text{N}_2$ ). (Nicotine laurate).  
HT *Aphis rumicis* at 0.1%. 628.
- 541-730-740-1011-1021.  
Nicotine acetate;  $(\text{C}_{10}\text{H}_{14}\text{N}_2)\text{HOOCCH}_3$ .  
T *Rhopalosiphum ribis*. 1267A.
- 541-730-950-951-1021.  
Cinchophen;  $\text{C}_6\text{H}_5(\text{C}_6\text{H}_5\text{N})\text{COOH}$ . (2-Phenylquinoline-4-carboxylic acid; atophan).  
T screwworms at 0.17-0.33%. 156.
- 541-730-950-968-1021.  
Quinidine, 2, 3-dihydro-12-carboxylic acid;  $(\text{C}_{20}\text{H}_{26}\text{N}_2\text{O}_2)\text{COOH}$ .  
T screwworms at 0.87%; ST corn borer. 944, 1120.
- 541-730-950-1021.  
Acridine, carboxylic derivatives.  
T as mothproofing agent. 331P, 1176.
- 541-730-983-1030.  
Oleic acid, pyridine salt;  $\text{C}_{18}\text{H}_{35}\text{N}\text{COOH}$ . (Pyridine oleate).  
T *Polychrosis botrana*. 1020.
- 541-730-1021.  
Nicotinic acid;  $(\text{C}_6\text{H}_5\text{N})\text{COOH}$ .  
NT *Pieris rapae*. 635.
- 541-730-1021.  
Piperidine, carboxylic acid;  $(\text{NC}_5\text{H}_{10})\text{COOH}$ . 357P.
- 541-730-1021-1291.  
Nicotinic acid, hydrochloride;  $\text{HOOCCH}_2\text{N.HCl}$ .  
NT codling moth. 915.
- 541-730-1021-1341.  
Nicotinic acid, nitrate;  $\text{HOOCCH}_2\text{N.HNO}_3$ .  
T *Aphis rumicis*. 1152.
- 541-730-1022.  
Piperidine carboxylic acid, methyl-;  $(\text{NC}_5\text{H}_9\text{CH}_3)\text{COOH}$ . 357P.
- 541-730-1027.  
Fatty acids from linseed oil, piperidine salts, CU. (Piperidides of linseed oil acids).  
Fly spray. 112, 1224P.
- 541-732-1021.  
Pyrazine carboxylic acid;  $(\text{C}_4\text{H}_5\text{N}_2)\text{COOH}$ ? 357P.
- 541-740-950-1001.  
3-Indolebutyric acid;  $(\text{C}_8\text{H}_7\text{N})\text{C}_3\text{H}_5\text{COOH}$ . (Indolebutyric acid).  
NT *Culex quinquefasciatus*. 157.
- 541-740-950-1011.  
3-Indoleacetic acid;  $(\text{C}_8\text{H}_7\text{N})\text{CH}_2\text{COOH}$ . (Indoleacetic acid).  
NT *Culex quinquefasciatus*. 39P, 157.
- 541-740-1021.  
2-Pyrrolidinedicarboxylic acid;  $(\text{C}_4\text{H}_7\text{N})\text{COOH}$ . (Carboxylic acid of pyrrolidine). 357P.
- 541-740-1021.  
2-Pyrrole carboxylic acid;  $(\text{C}_4\text{H}_5\text{N})\text{COOH}$ . (Carboxylic acid of pyrrole). 357P.
- 541-742-1003-1291.  
Histidine, hydrochloride;  $\text{C}_6\text{H}_9\text{N}_3\text{CH}_2\text{CH}(\text{NH}_2)\text{COOH.HCl}$ . (α-Amino-5-imidazolepropionic acid).  
NT Colorado potato beetle, Mexican bean beetle, and codling moth. 606, 915.
- 541-791-1011-1112.  
Acetic acid, mercapto-, arsenic salt;  $[\text{CH}_3(\text{SH})\text{COO}]_2\text{As}$ . (Arsenic trithioglycolate).  
HT Colorado potato beetle and Mexican bean beetle. 606, 1432.
- 541-791-1011-1114.  
Acetic acid, mercapto-, barium salt;  $(\text{SHCH}_2\text{COO})_2\text{Ba}$ . (Ba thioglycolate).  
MT Mexican bean beetle; NT Colorado potato beetle. 606, 1432.
- 541-791-1014-1167.  
Acetic acid, mercapto-, triethyl lead ester. (Triethyl lead thioglycolate).  
T many insects. 161P.



- 541-825-1021.  
2-Thiophene carboxylic acid;  $C_6H_4SCOOH$ . (Carboxylic acid of thiophene). 357P.
- 541-841-951-1021.  
Benzoic acid, *m*-bromo-;  $BrC_6H_4COOH$ .  
NT screwworms. 156.
- 541-841-951-1021.  
Benzoic acid, *o*-bromo-;  $BrC_6H_4COOH$ .  
NT European corn borer and screwworms. 156, 1122.
- 541-841-951-1021.  
Benzoic acid, *p*-bromo-;  $BrC_6H_4COOH$ .  
NT screwworms. 156.
- 541-841-997.  
Caproic acid,  $\alpha$ -bromo-;  $CH_3(CH_2)_4CHBrCOOH$ . ( $\alpha$ -Bromo *n*-caproic acid; 2-bromohexanoic acid).  
NT red scale. 268, 1180.
- 541-841-999.  
Valeric acid,  $\alpha$ -bromo-;  $CH_3(CH_2)_3CHBrCOOH$ . ( $\alpha$ -Bromo *n*-valeric acid; 2-bromopentanoic acid).  
NT red scale. 1180.
- 541-841-1001.  
Butyric acid,  $\alpha$ -bromo-;  $CH_3CH_2CHBrCOOH$ . ( $\alpha$ -Bromo *n*-butyric acid; 2-bromobutanoic acid).  
NT red scale. 1180.
- 541-841-1003.  
Propionic acid,  $\alpha$ -bromo-;  $CH_3CHBrCOOH$ . (*dl*-2-Bromopropanoic acid).  
NT red scale. 1180.
- 541-841-1011-1114.  
Acetic acid, bromo-, barium salt;  $(BrCH_2COO)_2Ba$ . (Barium bromoacetate).  
*T Locustana pardalina* and *Nomadacris septemfasciata*. 1144.
- 541-842-951-1003.  
Hydrocinnamic acid,  $\alpha,\beta$ -dibromo;  $C_6H_5CHBrCHBrCOOH$ . (*i*-Cinnamic acid dibromide).  
NT as mothproofing agent. 239.
- 541-843-1011.  
Acetic acid, tribromo-;  $Br_3CCOOH$ . (Tribromoethanoic acid, tribromoacetic acid). 890P.
- 541-851-951-1021.  
Benzoic acid, *o*-chloro-;  $ClC_6H_4COOH$ .  
T clothes moths; NT European corn borer and screwworms. 156, 875P, 1122.
- 541-851-951-1021.  
Benzoic acid, *p*-chloro-;  $ClC_6H_4COOH$ .  
ST screwworms; NT European corn borer. 156, 1122.
- 541-851-983-1213-1291.  
Selenium chloride, 9 - (1-carboxy - 8-chloroheptadecyl)-;  $C_{17}H_{33}(SeCl_2)(Cl)COOH$ ? (Oleic acid, seleno-).  
T as mothproofing agent. 399P, 679P, 1160A, 1175.
- 541-851-1011-1114.  
Acetic acid, chloro-, barium salt;  $(ClCH_2COO)_2Ba$ . (Barium chloroacetate).  
T *Locustana pardalina* and *Nomadacris septemfasciata*. 1144.
- 541-851-1011-1126.  
Acetic acid, chloro-, calcium salt;  $(ClCH_2COO)_2Ca$ . (Calcium chloroacetate).  
T roaches and *Lucilia cuprina* larvae. 587, 1144.
- 541-851-1011-1142-1260.  
Copper chloroacetate;  $(ClCH_2COO)_2Cu \cdot 3Cu(AsO_4)_2$ .  
T southern army worm and mosquito larvae; MT *Tribolium*. 274A, 1168.
- 541-851-1011-1218.  
Acetic acid, chloro-, sodium salt;  $CH_3ClCOONa$ . (Neutral sodium monochloroacetate).  
T aphid. 1085P.
- 541-851-1011-1311.  
Acetic acid, chloro-, borofluoro-;  $(BF_4)(CH_3ClCOOH)$ .  
T as mothproofing agent. 396P, 400P, 634P, 1175, 1400P.
- 541-851-1027-1164.  
Cottonseed oil acids, chlorinated-, lanthanum salts.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-851-1027-1180-1198.  
Cottonseed oil acids, chlorinated-, didymium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-851-1027-1228.  
Cottonseed oil acids, chlorinated-, thallium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-851-1027-1230.  
Cottonseed oil acids, chlorinated-, thorium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-851-1027-1236.  
Cottonseed oil acids, chlorinated-, titanium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-851-1027-1245.  
Cottonseed oil acids, chlorinated-, sironium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-852-1011-1142-1260.  
Copper dichloroacetate;  $(Cl_2CHCOO)_2Cu \cdot 3Cu(AsO_4)_2$ .  
T southern army worm and mosquito larvae; MT *Tribolium*. 274A, 1168.
- 541-853-1011-1142-1260.  
Copper trichloroacetate;  $(Cl_3CCOO)_2Cu \cdot 3Cu(AsO_4)_2$ .  
T southern army worm and mosquito larvae. 274A.
- 541-861-983.  
Stearic acid, fluoro-, CU;  $C_{17}H_{33}FCOOH$ . (Monofluorostearic acid). 345P.
- 541-861-983-1030-1218.  
Oleic acid, fluoro-, sodium salt, CU;  $C_{17}H_{33}FCOONa$ . (Sodium fluorooleate). 345P.
- 541-861-983-1120.  
Stearic acid, fluoro-, calcium salt, CU;  $C_{17}H_{33}FCOO)_2Ca$ . 345P.
- 541-861-990.  
Undecanoic acid, fluoro-, CU;  $F(CH_2)_{10}COOH$ . (Monofluoroundecanoic acid). 345P.
- 541-861-990-1246.  
Undecanoic acid, fluoro-, salt, CU. (Salt of monofluoroundecanoic acid). 345P.
- 541-861-1011.  
Acetic acid, fluoro-;  $FH_2CCOOH$ .  
T as mothproofing agent. 411P, 425P, 1175, 1399P.
- 541-862-983.  
Stearic acid, difluoro-, CU;  $C_{17}H_{33}F_2COOH$ . 345P.
- 541-862-983-1126.  
Stearic acid, difluoro-, calcium salt, CU;  $(C_{17}H_{33}F_2COO)_2Ca$ . 345P.
- 541-871-951.  
Benzoic acid, *o*-iodo-;  $(COOH)C_6H_4I$ .  
NT screwworms. 110, 156, 1229.
- 541-871-951.  
Benzoic acid, *p*-iodo-;  $(COOH)C_6H_4I$ .  
HT mosquito larvae. 110, 487, 1229.
- 541-910-1003-1022-1130.  
Abietic acid, cerium salt;  $(C_{19}H_{31}COO)_2Ce$ . (Abietic acid; sylvic acid).  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1164.  
Abietic acid, lanthanum salt;  $(C_{19}H_{31}COO)_2La$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1180-1198.  
Abietic acid, didymium salt.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1228.  
Abietic acid, thallium salt;  $C_{19}H_{31}COOTl$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1230.  
Abietic acid, thorium salt;  $(C_{19}H_{31}COO)_2Th$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1236.  
Abietic acid, titanium salt;  $(C_{19}H_{31}COO)_2Ti$ .  
T carpet beetle. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1240.  
Abietic acid, uranium salt;  $(C_{19}H_{31}COO)_2U$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-910-1003-1022-1245.  
Abietic acid, sironium salt;  $(C_{19}H_{31}COO)_2Zr$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-924-1011.  
Acetic acid,  $\alpha$ -naphthyl-;  $C_{10}H_7CH_2COOH$ . 39P.
- 541-924-1021.  
1-Naphthoic acid;  $C_{10}H_7COOH$ . ( $\alpha$ -Naphthoic acid).  
ST Japanese beetle. 494.
- 541-924-1021.  
2-Naphthoic acid;  $C_{10}H_7COOH$ . ( $\beta$ -Naphthoic acid;  $\beta$ -naphthalenecarboxylic acid).  
NT *Bombyx mori*. 559.
- 541-924-1021.  
Naphthoic acids, CU. (Naphthalene, carboxylic derivatives of).  
T as mothproofing agent. 31P, 1176.



- 541-953-983-1030-1167.  
Oleic acid, triphenyl lead salt;  $C_{17}H_{33}COOPb(C_6H_5)_3$ . (Triphenyl lead oleate).  
T many insects. 161P.
- 541-981-1003.  
Hydrocinnamic acid;  $C_6H_5CH_2CH_2COOH$ . ( $\beta$ -Phenylpropionic acid; benzenepropionic acid).  
HT codling moths. 156, 1291.
- 541-951-1003-1030.  
Cinnamic acid;  $C_6H_5CH:CHCOOH$ . (*trans*- $\beta$ -Phenylacrylic acid; *trans*-benzenepropenoic acid).  
ST screwworms at 0.67%. 156.
- 541-951-1011.  
 $\alpha$ -Toluic acid;  $C_6H_5CH_3COOH$ . (Acetic acid, phenyl).  
T houseflies and as mothproofing agent; ST screwworms. 156, 332P, 1912, 1176.
- 541-951-1021.  
Benzoic acid;  $C_6H_5COOH$ . (Benzenecarboxylic acid; Phenylformic acid).  
T *Orthopodomyia signifer* and as mothproofing agent; NT screwworms and corn borer. 43, 156, 895, 1122, 1176.
- 541-951-1021-1109.  
Benzoic acid, ammonium salt;  $NH_4C_7H_5O_2$ . (Ammonium benzoate).  
NT screwworms. 156.
- 541-951-1021-1166.  
Benzoic acid, lead salt;  $(C_6H_5CO_2)_2Pb$ . (Lead benzoate).  
NT *Melanoplus m. mexicanus*. 1150.
- 541-951-1021-1177-1291.  
Benzoic acid, *o*-chloromercuri-;  $HOOC_6H_4HgCl$ . (Mercury chlorobenzoic acid). 379P.
- 541-951-1021-1218.  
Benzoic acid, sodium salt;  $C_6H_5COONa$ . (Sodium benzoate).  
T *Aphis rumicis*; NT clothes moth, screwworms, *Melanoplus m. mexicanus*, and Mediterranean fruit fly. 156, 739, 963, 1150, 1152, 1176.
- 541-951-1021-1311.  
Benzoic acid, fluoboro-;  $(BF_4)C_6H_4COOH?$  (Benzoatofluoboric acid). 634P.
- 541-952-1011-1111.  
Acetic acid, diphenyl stibine salt;  $CH_3COOSb(C_6H_5)_2$ . (Stibine acetate, diphenyl).  
T as mothproofing agent. 463P, 639P, 1175, 1176.
- 541-953-983-1193-1276.  
Phosphonium bromide,  $\omega$ -carboxyhexadecylmethyltriphenyl-;  $(HOOCCH_2(CH_2)_{13}CH_3)(C_6H_5)_3PBr$ . ( $\omega$ -Carboxy-hexadecylmethyltriphenyl-phosphoniumbromide).  
T as mothproofing agent. 867P, 1175.
- 541-953-1011-1193.  
Phosphonium hydroxide, anhydro- $\omega$ -carboxyl-methyltriphenyl- (inner salt);  $O:(C_6H_5OP)(C_6H_5)_3$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 541-968-988.  
Chaulmoogric acid;  $(C_6H_7)(CH_2)_{13}COOH$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-975.  
Acid, carboxylic heterocyclic.  
T as mothproofing agent. 329P, 357P, 1176.
- 541-975.  
Acid, aromatic.  
T as mothproofing agent. 329P, 1176.
- 541-980-1142-1260.  
Copper melissoarsenite;  $(CuOAsO_2)_2 \cdot Cu(C_{20}H_{39}O_2)_2$ . 274B.
- 541-983.  
Stearic acid;  $C_{17}H_{35}COOH$ . (Cetylacetic acid;  $n$ -octodecyllic acid; stearinic acid; stearophanic acid).  
T as mothproofing agent; NT *Aphis rumicis*. 286, 745P, 781P, 782P, 1176, 1378.
- 541-983-1013-1030-1167.  
Oleic acid, triethyl lead salt. (Triethyl lead oleate).  
T many insects. 161P.
- 541-983-1013-1167.  
Stearic acid, triethyl lead salt. (Triethyl lead stearate).  
T many insects. 161P.
- 541-983-1030.  
Elaidic acid;  $CH_3(CH_2)_7CH:CH(CH_2)_7COOH$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1030-1109.  
Oleic acid, ammonium salt;  $C_{17}H_{33}COONH_4$ . (Ammonium oleate).  
T *Aphis rumicis* and as mothproofing agent. 842P, 843P, 1176, 1378.
- 541-983-1030-1114.  
Oleic acid, barium salt;  $(C_{17}H_{33}COO)_2Ba$ . (Barium oleate).  
NT codling moths and firebrats. 930, 1145.
- 541-983-1030-1130.  
Oleic acid, cerium salt;  $(C_{17}H_{33}COO)_2Ce$ .  
T as mothproofing agent; NT *Tineola biselliella* and *Attagenus piceus* (739). 739, 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1142.  
Oleic acid, copper salt;  $(CH_3(CH_2)_7CH:CH(CH_2)_7COO)_2Cu$ . (Copper oleate).  
T termites. 319P, 1175.
- 541-983-1030-1142-1261.  
Copper oleoarsenite;  $[C_6H_{17}CH:CHC_7H_{14}COO]_2Cu \cdot 3Cu(AsO_2)_2$ .  
MT *Tribolium*. 478A, 1168.
- 541-983-1030-1164.  
Oleic acid, lanthanum salt;  $(C_{17}H_{33}COO)_3La$ .  
T as mothproofing agent; NT *Tineola biselliella* and *Attagenus piceus* (739). 739, 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1166.  
Oleic acid, lead salt;  $Pb(C_{17}H_{33}COO)_2$ . (Lead oleate).  
T Japanese beetle. 1424.
- 541-983-1030-1172.  
Oleic acid, magnesium salt;  $(C_{17}H_{33}COO)_2Mg$ . (Magnesium oleate).  
NT clothes moths. 739, 1176.
- 541-983-1030-1180-1188.  
Oleic acid, didymium salt.  
T as mothproofing agent. 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1196.  
Oleic acid, potassium salt;  $C_{17}H_{33}COOK$ . (Potassium oleate).  
HT *Aphis rumicis*. 286.
- 541-983-1030-1218.  
Oleic acid, sodium salt;  $C_{17}H_{33}COONa$ . (Sodium oleate; Eunatrol).  
HT *Aphis rumicis*; T as mothproofing agent. 976P, 979P, 1176, 1378.
- 541-983-1030-1220.  
Oleic acid, strontium salt;  $(C_{17}H_{33}COO)_2Sr$ . (Strontium oleate).  
T as mothproofing agent. 422P, 430P, 869P, 1176.
- 541-983-1030-1228.  
Oleic acid, thallium salt;  $C_{17}H_{33}COOTl$ .  
T as mothproofing agent. 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1230.  
Oleic acid, thorium salt;  $(C_{17}H_{33}COO)_4Th$ .  
T as mothproofing agent; NT *Tineola biselliella* and *Attagenus piceus* (739). 739, 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1236.  
Oleic acid, titanium salt;  $(C_{17}H_{33}COO)_2Ti$ .  
T as mothproofing agent. 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1240.  
Oleic acid, uranium salt;  $(C_{17}H_{33}COO)_4U$ .  
T as mothproofing agent. 745P, 781P, 782P, 985, 1167, 1176.
- 541-983-1030-1245.  
Oleic acid, zirconium salt;  $(C_{17}H_{33}COO)_2Zr$ .  
T as mothproofing agent. 745P, 781P, 782P, 985, 1167P, 1176.
- 541-983-1030-1311.  
Oleic acid, fluoboro-;  $(BF_4)(CH_3(CH_2)_7CH:CH(CH_2)_7COOH)$ .  
T as mothproofing agent. 634P, 1175, 1400P.
- 541-983-1033-1130.  
Linoleic acid, cerium salt;  $(C_{17}H_{31}COO)_2Ce$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1033-1164.  
Linoleic acid, lanthanum salt;  $(C_{17}H_{31}COO)_3La$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.

- 541-983-1033-1180-1198.  
Linoleic acid, didymium salt.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1033-1228.  
Linoleic acid, thallium salt;  $C_{17}H_{32}COOTl$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1033-1230.  
Linoleic acid, thorium salt;  $(C_{17}H_{32}COO)_4Th$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1033-1236.  
Linoleic acid, titanium salt;  $(C_{17}H_{32}COO)_4Ti$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1033-1240.  
Linoleic acid, uranium salt;  $(C_{17}H_{32}COO)_4U$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1033-1245.  
Linoleic acid, zirconium salt;  $(C_{17}H_{32}COO)_4Zr$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1035-1130.  
Clupanodonic acid, cerium salt;  $(C_{17}H_{32}COO)_4Ce$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1035-1164.  
Clupanodonic acid, lanthanum salt;  $(C_{17}H_{32}COO)_4La$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1035-1180-1198.  
Clupanodonic acid, didymium salt.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1035-1230.  
Clupanodonic acid, thorium salt;  $(C_{17}H_{32}COO)_4Th$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1035-1240.  
Clupanodonic acid, uranium salt;  $(C_{17}H_{32}COO)_4U$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1035-1245.  
Clupanodonic acid, zirconium salt;  $(C_{17}H_{32}COO)_4Zr$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1130.  
Linolenic acid, cerium salt;  $(C_{17}H_{32}COO)_4Ce$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1164.  
Linolenic acid, lanthanum salt;  $(C_{17}H_{32}COO)_4La$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1180-1198.  
Linolenic acid, didymium salt.  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1228.  
Linolenic acid, thallium salt;  $C_{17}H_{32}COOTl$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1230.  
Linolenic acid, thorium salt;  $(C_{17}H_{32}COO)_4Th$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1236.  
Linolenic acid, titanium salt;  $(C_{17}H_{32}COO)_4Ti$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1240.  
Linolenic acid, uranium salt;  $(C_{17}H_{32}COO)_4U$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1036-1245.  
Linolenic acid, zirconium salt;  $(C_{17}H_{32}COO)_4Zr$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 541-983-1109.  
Stearic acid, ammonium salt;  $C_{17}H_{35}COONH_4$ . (Ammonium stearate).  
T as mothproofing agent; NT *Aphis rumicis*. 103P, 1176, 1378.
- 541-983-1114.  
Stearic acid, barium salt;  $(C_{17}H_{35}COO)_2Ba$ . (Barium stearate).  
NT *Malacosoma americana*. 1008.
- 541-983-1142.  
Stearic acid, copper salt;  $(C_{17}H_{35}COO)_2Cu$ . (Copper stearate).  
T tent caterpillars at 0.1%. 119.
- 541-983-1142-1260.  
Copper stearoarsenite;  $(C_{17}H_{35}COO)_2Cu_3Cu(AsO_4)_2$ .  
HT *Tribolium*. 274B, 478A, 1168.
- 541-983-1166.  
Stearic acid, lead salt;  $(C_{17}H_{35}COO)_2Pb$ . (Lead stearate).  
NT tent caterpillars. 119.
- 541-983-1176.  
Stearic acid, mercury salt;  $(C_{17}H_{35}COO)_2Hg$ . (Mercury stearate).  
T tent caterpillars. 119.
- 541-983-1196.  
Stearic acid, potassium salt;  $C_{17}H_{35}COOK$ . (Potassium stearate).  
ST *Aphis rumicis*. 286.
- 541-983-1218.  
Stearic acid, sodium salt;  $C_{17}H_{35}COONa$ . (Sodium stearate).  
T as mothproofing agent. 781P, 1176.
- 541-985.  
Palmitic acid;  $CH_3(CH_2)_{14}COOH$ . (Hexadecanoic acid; n-hexadecylic acid).  
ST *Aphis rumicis*. 286, 1378.
- 541-985-1011-1177.  
Palmitic acid, ethyl mercury salt;  $C_{15}H_{31}HgOOCOC_{15}H_{31}$ . (Ethyl mercury palmitate). 1402P.
- 541-985-1106.  
Palmitic acid, aluminum salt;  $(C_{15}H_{31}COO)_3Al$ . (Aluminum palmitate).  
NT clothes moths. 739, 1176.
- 541-985-1109.  
Palmitic acid, ammonium salt;  $C_{15}H_{31}COONH_4$ . (Ammonium palmitate).  
NT *Aphis rumicis*, *Tineola biselliella*, and *Attagenus piceus*. 739, 1378.
- 541-985-1142-1260.  
Copper palmitoarsenite;  $(C_{15}H_{31}COO)_2Cu_3Cu(AsO_4)_2$ . 274B.
- 541-985-1196.  
Palmitic acid, potassium salt;  $C_{15}H_{31}COOK$ . (Potassium palmitate).  
MT *Aphis rumicis*. 286.
- 541-987.  
Myristic acid;  $C_{13}H_{27}COOH$ .  
NT *Aphis rumicis* at 5.0%. 286, 1378.
- 541-987-1109.  
Myristic acid, ammonium salt;  $C_{13}H_{27}COONH_4$ . (Ammonium myristate).  
MT *Aphis rumicis*. 1378.
- 541-987-1196.  
Myristic acid, potassium salt;  $C_{13}H_{27}COOK$ . (Potassium myristate).  
MT *Aphis rumicis*. 286.
- 541-988.  
Tridecanoic acid;  $C_{13}H_{27}COOH$ . (Tridecyllic acid).  
100% T *Aphis rumicis*. 1378.
- 541-988-1109.  
Tridecanoic acid, ammonium salt;  $C_{13}H_{27}COONH_4$ . (Ammonium tridecylate).  
MT *Aphis rumicis*. 1378.
- 541-989.  
Lauric acid;  $C_{11}H_{23}COOH$ . (Dodecanoic acid).  
T *Aphis rumicis*. 286, 1378.
- 541-989-1109.  
Lauric acid, ammonium salt;  $C_{11}H_{23}COONH_4$ . (Ammonium laurate).  
HT *Aphis rumicis*. 1378.
- 541-989-1142-1261.  
Copper lauroarsenite;  $(C_{11}H_{23}COO)_2Cu_3Cu(AsO_4)_2$ .  
HT *Tribolium*. 274B, 478A, 1168.
- 541-989-1196.  
Lauric acid, potassium salt;  $C_{11}H_{23}COOK$ . (Potassium laurate).  
MT *Aphis rumicis*. 286.
- 541-989-1218.  
Lauric acid, sodium salt;  $C_{11}H_{23}COONa$ . 1069.
- 541-990.  
Hendecanoic acid;  $C_{11}H_{23}COOH$ . (Undecylic acid).  
HT *Aphis rumicis*. 1378.
- 541-990-1030 . . .  
Hendecanoic acid, CU;  $C_{11}H_{23}COOH$ . (Undecanoic acid).  
HT *Aphis rumicis*. 206P, 1378.\*
- 541-990-1030-1109.  
Hendecanoic acid, ammonium salt, CU;  $C_{11}H_{23}COONH_4$ . (Ammonium undecanoate).  
HT *Aphis rumicis*. 1378.
- 541-990-1109.  
Hendecanoic acid, ammonium salt;  $CH_3(CH_2)_9COONH_4$ . (Ammonium undecylate).  
HT *Aphis rumicis*. 1378.
- 541-991.  
Capric acid;  $C_{10}H_{21}COOH$ .  
T *Aphis rumicis*. 286, 1378.

- 541-991-1109.  
Capric acid, ammonium salt;  $C_6H_{11}COONH_4$ . (Ammonium caprate).  
HT *Aphis rumicis*. 1378.
- 541-991-1196.  
Capric acid, potassium salt;  $C_6H_{11}COOK$ . (Potassium caprate).  
MT *Aphis rumicis*. 286.
- 541-991-1218.  
Capric acid, sodium salt;  $C_6H_{11}COONa$ . 1069.
- 541-992.  
Pelargonic acid;  $C_6H_{11}COOH$ . (Nonanoic acid).  
HT *Aphis rumicis*; T *Lucilia cuprina* larvae. 849, 1378.
- 541-992-1109.  
Pelargonic acid, ammonium salt;  $C_6H_{11}COONH_4$ . (Ammonium pelargionate).  
HT *Aphis rumicis*. 1378.
- 541-993.  
Caprylic acid;  $C_7H_{13}COOH$ . (Caprilic acid; oitic acid; n-octioic acid; octylic acid).  
T *Aphis rumicis*, *Lucilia cuprina*, and as mothproofing agent. 286, 849, 976P, 979P, 1176, 1378.
- 541-993-1109.  
Caprylic acid, ammonium salt;  $C_7H_{13}COONH_4$ . (Ammonium caprylate).  
HT *Aphis rumicis*. 1378.
- 541-993-1196.  
Caprylic acid, potassium salt;  $C_7H_{13}COOK$ . (Potassium caprylate).  
MT *Aphis rumicis*. 286.
- 541-993-1218.  
Caprylic acid, sodium salt;  $C_7H_{13}COONa$ . 1069.
- 541-994-997-1109.  
Caproic acid, diocetyl ammonium salt;  $CH_3(CH_2)_4COONH_2(C_6H_{11})_2$ . (Diocetylamine caproate).  
HT as fly spray. 112, 1127P.
- 541-995.  
Enanthic acid;  $C_6H_{11}COOH$ . (Oenanthic (heptylic) acid; enanthylic acid; heptanoic acid; n-heptoic acid; n-heptylic acid).  
HT *Aphis rumicis*; T mosquito and *Lucilia cuprina* larvae. 849, 1070, 1293, 1378.
- 541-995-1109.  
Enanthic acid, ammonium salt;  $C_6H_{11}COONH_4$ . (Ammonium oenanthate; ammonium heptanoate).  
HT *Aphis rumicis*. 1378.
- 541-997.  
Caproic acid;  $C_6H_{11}COOH$ . (Hexanoic acid; n-hexioic acid).  
T *Aphis rumicis* and mosquito larvae. 286, 1070, 1293, 1378.
- 541-997-1109.  
Caproic acid, ammonium salt;  $C_6H_{11}COONH_4$ . (Ammonium caproate).  
MT *Aphis rumicis*. 1378.
- 541-997-1196.  
Caproic acid, potassium salt;  $C_6H_{11}COOK$ . (Potassium caproate).  
NT *Aphis rumicis* and *Macrosiphum rosae*. 286.
- 541-997-1218.  
Caproic acid, sodium salt;  $C_6H_{11}COONa$ . 1069.
- 541-999.  
Butyric acid,  $\alpha$ -methyl-;  $CH_3CH_2CH(CH_3)COOH$ . (dl-Methylethylacetic acid).  
NT rice weevil. 1180.
- 541-999.  
Valeric acid;  $C_4H_9COOH$ . (Valerianic (normal) acid; pentanoic acid).  
HT *Aphis rumicis* and *Lucilia cuprina*; T diptera. 735, 849, 1293, 1378.
- 541-1001.  
Butyric acid;  $C_4H_7COOH$ . (Butanoic acid; ethyl-acetic acid).  
MT *Aphis rumicis*; T diptera. 735, 1293, 1378.
- 541-1001-1030.  
Crotonic acid;  $C_4H_5COOH$ .  
NT *Melanoplus m. mexicanus*. 1160.
- 541-1001-1030-1142-1261.  
Copper crotonoarsenite;  $(CH_3CH=CHCOO)_2Cu_3Cu(AsO_4)_2$ .  
HT *Triodolium*. 478A, 1168.
- 541-1001-1142-1260.  
Copper butyaroarsenite;  $(C_4H_7COO)_2Cu_3Cu(AsO_4)_2$ .  
T southern army worm and mosquito larvae. 274A.
- 541-1003.  
Propionic acid;  $C_3H_5COOH$ . (Propanoic acid; methylacetic acid).  
HT *Aphis rumicis*; NT *Chrysomphalus aurantii*. 268, 1293, 1378.
- 541-1003-1142-1260.  
Copper propionoarsenite;  $(C_3H_5COO)_2Cu_3Cu(AsO_4)_2$ .  
T southern army worm and mosquito larvae. 274A.
- 541-1003-1218.  
Propionic acid, sodium salt;  $C_3H_5COONa$ . 1069.
- 541-1003-1311.  
Propionic acid, fluoboro-;  $(BF_4)(CH_3CH_2COOH)$ .  
T as mothproofing agent. 1175, 1400P.
- 541-1011.  
Acetic acid;  $CH_3COOH$ . (Ethanoic acid; vinegar).  
T Japanese beetle; MT *Aphis rumicis*; ST red scale; NT clothes moths; used with kerosene for head lice. 26, 175, 286, 397P, 425P, 464P, 975P, 978P, 1076, 1175, 1176, 1213AP, 1293, 1378, 1399P, 1423.
- 541-1011-1106.  
Aluminum acetate;  $(CH_3COO)_3Al$ . (Alumini acetate; aluminic acetate; fluid gelatine; mordant salts; oil pulp; printer's acetate; red liquor waterproofing salts).  
NT *Tineola biselliella* and *Attageus piceus*. 338P, 739, 787P, 1176, 1179.
- 541-1011-1114.  
Barium acetate;  $(CH_3COO)_2Ba.H_2O$ .  
NT firebrats. 1145.
- 541-1011-1124.  
Cadmium acetate;  $(CH_3COO)_2Cd.3H_2O$ .  
NT *Bombyx mori*. 561.
- 541-1011-1126.  
Calcium acetate;  $(CH_3COO)_2Ca$ . (Brown acetate; calcii acetate; diacetate of lime; grey acetate; pyrolignite of lime; vinegar salts).  
T as mothproofing agent. 338P, 1176.
- 541-1011-1130.  
Cerium acetate;  $(CH_3COO)_2Ce$ .  
T as mothproofing agent. 757P, 1179.
- 541-1011-1142.  
Copper acetate;  $Cu(CH_3COO)_2.H_2O$ .  
T Aphids and as mothproofing agent; ST Mediterranean fruit fly; NT *Melanoplus m. mexicanus*. 175, 757P, 963, 1180, 1179.
- 541-1011-1142-1261.  
Paris green;  $(CH_3COO)_2Cu_3Cu(AsO_4)_2$ . (Copper aceto-arsenite).  
Standard insecticide, T many insects.
- 541-1011-1164.  
Lanthanum acetate;  $(CH_3COO)_3La$ .  
T as mothproofing agent. 757P, 1179.
- 541-1011-1166.  
Lead acetate;  $(CH_3COO)_2Pb$ .  
T *Popillia japonica* and T *Lucilia cuprina* at 0.1%; NT bedbugs. 493A, 849, 1268.
- 541-1011-1172.  
Magnesium acetate;  $(CH_3COO)_2Mg.xH_2O$ .  
NT *Melanoplus m. mexicanus*. 1160.
- 541-1011-1218.  
Sodium acetate;  $CH_3COONa$ .  
T as mothproofing agent. 319P, 1069, 1175.
- 541-1011-1220.  
Strontium acetate;  $(CH_3COO)_2Sr$ .  
T as mothproofing agent. 338P, 430P, 869P, 1175.
- 541-1011-1230.  
Thorium acetate;  $(CH_3COO)_4Th$ .  
T as mothproofing agent. 757P, 1179.
- 541-1011-1234.  
Tin acetate;  $(CH_3COO)_2Sn$ .  
T as mothproofing agent. 757P, 1179.
- 541-1011-1244.  
Zinc acetate;  $(CH_3COO)_2Zn$ .  
T aphids and as mothproofing agent. 175, 757P, 1179.
- 541-1011-1246.  
Acetate, metal, Cu.  
T as mothproofing agent. 757P, 1179.
- 541-1011-1311.  
Acetic acid, fluoboro-;  $(BF_4)(CH_3COOH)$ . (Boro-fluoroacetic acid).  
T as mothproofing agent. 396P, 400P, 456P, 472P, 634P, 1175, 1176, 1179, 1359P, 1400P.
- 541-1011-1311.  
Trifluoroacetic acid;  $(BF_3)_2(CH_3COOH)$ . (Boro-



- (neutral); pyrrolidine, 2,2-dimethyl-, oxalate).  
T *Aphis rumicis*. 1151.  
542-781-951-1013.  
Ethane, 1, 1-bis(mercaptoacetic acid)-, 1-phenyl-;  
 $\text{C}_6\text{H}_5\text{C}(\text{CH}_3)(\text{SCH}_2\text{COOH})_2$ . (Methylphenylmethylene-bis(mercaptoacetic acid)-).  
T codling moth larvae; NT mosquito larvae. 487, 1291.  
542-781-952-1012.  
Methane, bis(mercaptoacetic acid) diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{C}(\text{SCH}_2\text{COOH})_2$ . (Diphenylmethylene-bis(mercaptoacetic acid)-).  
ST mosquito larvae. 487.  
542-842-952-1021.  
Methane, bis(bromochlorohydroxyphenyl)-;  $\text{CH}_3-[\text{C}_6\text{H}_3(\text{Br})(\text{Cl})\text{OH}]_2$ .  
T as mothproofing agent. 455P, 1179.  
542-842-952-1021.  
Methane, bis(5-bromo-2-hydroxyphenyl)-;  $\text{CH}_3-[\text{C}_6\text{H}_3(\text{Br})\text{OH}]_2$ .  
T as mothproofing agent. 458P, 1179.  
542-854-951-1022.  
Phthalic acid, 3, 4, 5, 6-tetrachloro-;  $\text{C}_6\text{Cl}_4(\text{COOH})_2$ . (Tetrachlorophthalic acid).  
NT *Bombyx mori*. 561.  
542-951-1001-1022.  
Phthalic acid, butyl-, CU;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_4(\text{COOH})_2$ .  
NT *Bombyx mori*. 561.  
542-951-1022.  
Phthalic acid;  $\text{C}_6\text{H}_4(\text{COOH})_2$ . (Benzene-o-dicarboxylic acid).  
T screwworms and as mothproofing agent. 40P, 156, 1176.  
542-951-1022.  
Isophthalic acid;  $\text{C}_6\text{H}_4(\text{COOH})_2$ .  
NT *Bombyx mori*. 559.  
542-951-1022.  
Phthalic acids, CU.  
T as mothproofing agent. 1175, 1357P.  
542-952-1022.  
Benzoic anhydride;  $(\text{C}_6\text{H}_5\text{CO})_2\text{O}$ . (Benzoic acid anhydride).  
ST screwworms at 0.67%. 156.  
542-968-1023-1109.  
Camphoric acid, ammonium salt;  $\text{C}_{10}\text{H}_{18}(\text{COONH}_4)_2$ .  
T *Aphis rumicis*. 1152.  
542-980-1130.  
Japanic acid, cerium salt;  $[\text{C}_{20}\text{H}_{40}(\text{COO})_2]_2\text{Ce}$ . (Nonadecamethylene-dicarboxylic acid).  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1164.  
Japanic acid, lanthanum salt;  $[\text{C}_{20}\text{H}_{40}(\text{COO})_2]_2\text{La}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1180-1198.  
Japanic acid, didymium salt.  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1228.  
Japanic acid, thallium salt;  $\text{C}_{20}\text{H}_{40}(\text{COO})_2\text{Tl}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1230.  
Japanic acid, thorium salt;  $[\text{C}_{20}\text{H}_{40}(\text{COO})_2]_2\text{Th}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1236.  
Japanic acid, titanium salts;  $[\text{C}_{20}\text{H}_{40}(\text{COO})_2]_2\text{Ti}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1240.  
Japanic acid, uranium salt;  $[\text{C}_{20}\text{H}_{40}(\text{COO})_2]_2\text{U}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-980-1245.  
Japanic acid, zirconium salt;  $[\text{C}_{20}\text{H}_{40}(\text{COO})_2]_2\text{Zr}$ .  
T as mothproofing agent. 780P, 781P, 782P, 1176.  
542-991.  
Sebacic acid;  $\text{COOH}(\text{CH}_2)_8\text{COOH}$ . (Decanedioic acid).  
NT *Bombyx mori* larvae. 559.  
542-997.  
Adipic acid;  $\text{COOH}(\text{CH}_2)_4\text{COOH}$ .  
NT European corn borer. 1123.  
542-1001.  
Succinic acid;  $(\text{CH}_3\text{COOH})_2$ .  
NT houseflies. 1012.  
542-1001-1027.  
Succinic acid, substituted, CU;  $\text{HOOCCH}_2\text{R}'\text{CH}_2\text{COOH}$ . 173P.  
542-1003-1011-1177.  
Oxalic acid; propylmercury salt;  $(\text{C}_3\text{H}_7\text{Hg})_2(\text{OOC})_2$ . (Propylmercurioxalate). 302P.  
542-1003-1228.  
Malonic acid, thallium salt;  $\text{CH}_3(\text{COO})_2\text{Tl}$ . (Thallous malonate).  
NT codling moths. 930.  
542-1011.  
Oxalic acid;  $(-\text{COOH})_2$ .  
T as mothproofing agent; NT clothes moths. (985).  
975P, 978P, 984P, 985, 1133P, 1176, 1179.  
542-1011-1109.  
Ammonium oxalate;  $(-\text{OONH}_4)_2$ .  
NT *Melanoplus m. mexicanus*. 1150.  
542-1011-1114.  
Barium oxalate;  $(-\text{COO})_2\text{Ba}$ .  
T *Malacosoma americana*; MT firebrats. 1008, 1144, 1145.  
542-1011-1124.  
Cadmium oxalate;  $(-\text{COO})_2\text{Cd}\cdot 3\text{H}_2\text{O}$ .  
MT *Bombyx mori* larvae. 561.  
542-1011-1126.  
Calcium oxalate;  $(-\text{COO})_2\text{Ca}$ .  
NT *Malacosoma americana*. 1008.  
542-1011-1138.  
Cobaltous oxalate;  $(-\text{COO})_2\text{Co}$ .  
NT tobacco worm moths. 553.  
542-1011-1142.  
Copper oxalate;  $(-\text{COO})_2\text{Cu}\cdot \frac{1}{2}\text{H}_2\text{O}$ .  
T Mediterranean fruit fly. 963.  
542-1011-1166.  
Lead oxalate;  $(-\text{COO})_2\text{Pb}$ .  
T codling moths. 915.  
542-1011-1172.  
Magnesium oxalate;  $(-\text{COO})_2\text{Mg}\cdot 2\text{H}_2\text{O}$ .  
NT *Melanoplus m. mexicanus*. 1150.  
542-1011-1196.  
Potassium acid oxalate;  $\text{HOOC}\text{COOK}$ .  
T as mothproofing agent. 1133P, 1179.  
542-1011-1196-1312.  
Potassium oxalate hydrofluoride;  $(-\text{COOK})_2\text{HF}$ .  
T as mothproofing agent. 642P, 1175.  
542-1011-1218.  
Sodium oxalate;  $(-\text{COONa})_2$ .  
NT *Orthopodomyia signifer*. 895.  
542-1011-1244.  
Zinc oxalate;  $(-\text{COO})_2\text{Zn}$ .  
ST codling moths. 915.  
543-571-581-951-1001-1022.  
Nicotinic acid;  $(\text{HOOC})_2(\text{HO})\text{C}_6\text{H}_4\text{OC}(\text{CH}_3)_2\text{COOH}$ .  
Associated with rotenone. 618.  
543-581-997.  
Citric acid;  $\text{HOOCCH}_2\text{C}(\text{OH})(\text{COOH})\text{CH}_2\text{COOH}$ . (Acidum citricum; oxytricarballic acid).  
T mothproofing agent; NT *Orthopodomyia signifer*. 895, 975P, 976P, 978P, 979P, 984P, 1176.  
543-581-997-1110.  
Antimonyl citrate (exact constitution questionable). 989P.  
543-581-997-1110-1196.  
Potassium antimonyl citrate.  
T *Scirtothrips citri*. 1144.  
543-581-997-1172.  
Magnesium citrate;  $(\text{C}_6\text{H}_5\text{O})_2\text{Mg}$ .  
NT *Melanoplus m. mexicanus*. 1150.  
543-581-997-1218.  
Sodium citrate;  $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$ .  
NT screwworms. 156.  
543-997-1030.  
Aconitic acid;  $\text{C}_6\text{H}_5(\text{COOH})_3$ .  
NT European corn borer. 1122.  
544-584-594-620-1025.  
Alginate acid. (Alginic acid; algin).  
T as mothproofing agent. 1036P, 1037P, 1176.  
551-561-591-972-1001-1025-1030.  
Chrysanthemumic acid, vanillin ester;  $(\text{C}_6\text{H}_5)_2\text{COOC}_6\text{H}_4(\text{CHO})\text{OCH}_3$ . (Chrysanthemum monocarboxylic acid, vanillin ester).  
MT *Aphis rumicis*. 680.  
551-571-581-924-1012-1021.  
2-Naphthoic acid, 4-acetyl-3-hydroxy-, ethyl ester;  $\text{HOC}_6\text{H}_4(\text{COCH}_3)\text{COOC}_2\text{H}_5$ .  
ST corn borer. 1120.  
551-571-620-625-1011-1021.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6-(2-furyl)-, ethyl ester;  $(\text{C}_4\text{H}_5\text{O})(\text{C}_4\text{H}_3\text{O})(\text{O})\text{COOC}_2\text{H}_5$ .

- (Furfural acetone oxalate ethyl ester).  
T houseflies at 2-5%. 793P.
- 551-571-620-625-1024.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, tetrahydrofurfuryl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}_2(\text{C}_6\text{H}_7\text{O})$ . (Mesityl oxide oxalate tetrahydrofurfuryl ester).  
T houseflies at 2-5%. 793P.
- 551-571-620-951-1001-1021.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6-phenyl-, butyl ester;  $\text{C}_6\text{H}_5(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_4\text{H}_9$ . (Benzal acetone oxalate normal butyl ester).  
T houseflies at 2-5%. 793P.
- 551-571-620-951-1011-1021.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6-phenyl-, ethyl ester;  $\text{C}_6\text{H}_5(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_2\text{H}_5$ . (Benzal acetone oxalate ethyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-951-1024.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, benzyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}_2\text{C}_6\text{H}_5$ . (Mesityl oxide oxalate benzyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-957-1011-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6-(2, 6, 6-trimethyl-1-cyclohexenyl)-, ethyl ester;  $(\text{CH}_3)_3(\text{C}_6\text{H}_9\text{O})(\text{O})\text{COOC}_2\text{H}_5$ . ( $\beta$ -Ionone, oxalate ethyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-961-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, cyclohexyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_6\text{H}_{11}$ . (Mesityl oxide oxalate cyclohexyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-992-1011-1021-1035.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6-(2, 6-dimethyl-1, 3, 5-heptatrienyl)-, ethyl ester;  $(\text{CH}_3)_2\text{CHCH}:\text{CHC}(\text{CH}_3):\text{CH}(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_2\text{H}_5$ . (Pseudoionone oxalate ethyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-999-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, amyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_5\text{H}_{11}$ . (Mesityl oxide oxalate normal amyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-999-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, isomyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}_2\text{CH}(\text{CH}_3)_2$ . (Mesityl oxide oxalate iso-amyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-999-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, sec amyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}(\text{CH}_3)\text{C}_4\text{H}_9$ . (Mesityl oxide oxalate secondary amyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-1001-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, butyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_4\text{H}_9$ . (Indalone;  $\alpha,\alpha$ -dimethyl- $\alpha'$ -carbobotoxydihydro- $\gamma$ -pyrone; butyl mesityl oxide oxalate; butyl ester of 2, 3, 5, 6-tetrahydro-4-keto-6-dimethyl-1, 4-pyran-2-carboxylic acid).  
T mosquitoes, codling moths, and T houseflies at 2%. 502P, 793P, 1112, 1291.
- 551-571-620-1001-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, isobutyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}_2\text{CH}(\text{CH}_3)_2$ . (Isobutyl ester of  $\alpha$ -dimethyl- $\alpha'$ -carboxydihydro- $\gamma$ -pyrone).  
T houseflies. 502P.
- 551-571-620-1001-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, sec-butyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}(\text{CH}_3)\text{C}_4\text{H}_9$ . (sec-Butyl ester of  $\alpha$ -dimethyl- $\alpha'$ -carboxydihydro- $\gamma$ -pyrone).  
T houseflies. 502P.
- 551-571-620-1003-1011-1021-1030.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6-propenyl-, ethyl ester;  $\text{CH}_3\text{CH}:\text{CH}(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_2\text{H}_5$ . (Crotonal acetone oxalate ethyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-1003-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, propyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_3\text{H}_7$ . (Mesityl oxide oxalate normal propyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-1003-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, isopropyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}(\text{CH}_3)_2$ . (Mesityl oxide oxalate isopropyl ester).  
T houseflies at 2%. 793P.
- 551-571-620-1011-1023.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, ethyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOC}_2\text{H}_5$ . (Ethyl ester of 5, 6-dihydro-4-keto-6, 6-dimethyl-1, 4-pyran-2-carboxylic acid; mesityl oxide oxalate, ethyl ester).  
HT codling moths; T houseflies at 2%. 793P, 1291.
- 551-571-620-1024.  
1, 4-Pyrone-2-carboxylic acid, 5, 6-dihydro-6, 6-dimethyl-, methyl ester;  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(\text{O})\text{COOCH}_3$ . (Mesityl oxide oxalate methyl ester dihydropyrone isomer).  
T houseflies at 2-5%. 793P.
- 551-571-651-952-1012.  
Acetophenone,  $\alpha$ -hydroxy-*p*-phenyl-, chloroacetate; HT codling moth larvae; MT mosquito larvae. 487, 1291.
- 551-571-951-987-999-1030.  
Acetoacetic acid,  $\gamma$ -benzylidene-, tetradecyl ester;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}_2\text{COOC}_{14}\text{H}_{29}$ . 1195P.
- 551-571-951-989-999-1030.  
Acetoacetic acid,  $\gamma$ -benzylidene-, dodecyl ester;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}_2\text{COOC}_{12}\text{H}_{25}$ . 1195P.
- 551-571-951-993-999-1030.  
Acetoacetic acid,  $\gamma$ -benzylidene-, 2-ethylhexyl ester;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}_2\text{COOCH}_2\text{CH}(\text{C}_6\text{H}_5)\text{C}_6\text{H}_5$ . 1195P.
- 551-571-952-972-1001-1003-1022-1030.  
Acetophenone,  $\alpha$ -hydroxy-*p*-phenyl-, chrysanthemumate;  $\text{C}_6\text{H}_5\text{COOCH}_2\text{COC}_6\text{H}_4\text{C}_6\text{H}_5$ . ( $\alpha$ -Hydroxy-*p*-phenylacetophenone chrysanthemum monocarboxylate).  
MT mosquito larvae. 487.
- 551-571-952-1011-1021.  
Acetophenone,  $\alpha$ -hydroxy-*p*-phenyl-, formate;  $\text{HCOOCH}_2\text{COC}_6\text{H}_4\text{C}_6\text{H}_5$ .  
HT mosquito and codling moth larvae. 487, 1291.
- 551-571-952-1012.  
Acetophenone,  $\alpha$ -hydroxy-*p*-phenyl-, acetate;  $\text{CH}_3\text{COOCH}_2\text{COC}_6\text{H}_4\text{C}_6\text{H}_5$ .  
HT codling moth larvae; MT mosquito larvae. 487, 1291.
- 551-571-1001-1011.  
Acetoacetic acid, ethyl ester;  $\text{CH}_3\text{COCH}_2\text{COOC}_2\text{H}_5$ . (Ethyl acetoacetate; acetoacetic ester; ethyl-3-oxobutanate).  
T cutworms and as mothproofing agent; MT codling moth larvae; NT rice weevil. 684P, 1009, 1012, 1175, 1180, 1241P, 1242P, 1285.
- 551-572-591-993-1012.  
Isocaproic acid,  $\alpha,\gamma$ -dioxo-, 2-ethoxy-, ethyl ester;  $(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_2\text{COCOOCH}_2\text{CH}_2\text{OC}_2\text{H}_5$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, 2-ethoxy-, ethyl ester).  
Fly spray. 112, 794P.
- 551-572-951-993-1021.  
Isocaproic acid,  $\alpha,\gamma$ -dioxo-, benzyl ester;  $(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_2\text{COCOOCH}_2\text{C}_6\text{H}_5$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, benzyl ester).  
Fly spray. 112, 794P.
- 551-572-951-997-1001.  
Caproic acid,  $\alpha,\gamma$ -dioxo-,  $\alpha$ -phenyl-, butyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{COCH}_2\text{COCOOCC}_4\text{H}_9$ . ( $\alpha,\gamma$ -Diketo- $\alpha$ -phenylcaproic acid, butyl ester).  
Fly spray. 112, 794P.
- 551-572-951-1001-1011.  
Pyruvic acid, benzoyl-, ethyl ester;  $\text{C}_6\text{H}_5\text{COCH}_2\text{COOC}_2\text{H}_5$ .  
T flies. 112, 792P.
- 551-572-951-993.  
Isocaproic acid,  $\alpha,\gamma$ -dioxo-, cyclohexyl ester;  $(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_2\text{COCOOCC}_6\text{H}_{11}$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, cyclohexyl ester).  
Fly spray. 112, 794P.
- 551-572-951-1002.  
Cyclohexanecarboxylic acid,  $\alpha,\gamma$ -dioxo-, butyl ester;  $\text{C}_6\text{H}_{11}\text{COCH}_2\text{COCOOCC}_4\text{H}_9$ . ( $\gamma$ -Cyclohexyl- $\alpha,\gamma$ -diketobutyric acid, butyl ester).  
Fly spray. 112, 794P.

551-572-991-1001.

Pelargonic acid,  $\alpha,\gamma$ -dioxo- $\delta$ -methyl-, butyl ester;  $C_6H_5CH(CH_3)COOCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketo-delta-methylpelargonic acid, butyl ester).

Fly spray. 112, 794P.

551-572-992-1001.

Pelargonic acid,  $\alpha,\gamma$ -dioxo-, butyl ester;  $C_6H_{11}COOCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketopelargonic acid, butyl ester).

Fly spray. 112, 794P.

551-572-993-997.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-2-ethyl-, butyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2CH(C_2H_5)_2$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, 2-ethyl-butyl ester).

Fly spray. 112, 794P.

551-572-993-999.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, isocamyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2CH_2CH(CH_3)_2$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, isocamyl ester).

Fly spray. 112, 794P.

551-572-993-999.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, sec-amyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH(CH_3)C_4H_9$ . (Isocaproic acid,  $\alpha,\gamma$ -dioxo-, 1-methyl-butyl ester;  $\alpha,\gamma$ -diketoisocaproic acid, 1-methyl-butyl ester).

Fly spray. 112, 794P.

551-572-993-1001.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, butyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, butyl ester).

Fly spray. 112, 794P.

551-572-993-1001.

Caproic acid,  $\alpha,\gamma$ -dioxo- $\delta$ ,  $\delta$ -dimethyl, butyl ester;  $(CH_3)_2CCOCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketo-delta, delta-dimethylcaproic acid, butyl ester).

Fly spray. 112, 794P.

551-572-993-1001.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, isobutyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2CH(CH_3)_2$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, isobutyl ester).

Fly spray. 112, 794P.

551-572-993-1001-1030.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, 2-methylallyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2C(CH_3)=CH_2$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, 2-methylallyl ester).

Fly spray. 112, 794P.

551-572-993-1003.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, isopropyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH(CH_3)_2$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, isopropyl ester).

Fly spray. 112, 794P.

551-572-993-1003-1030.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, allyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2CH=CH_2$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, allyl ester).

Fly spray. 112, 794P.

551-572-993-1011.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, ethyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, ethyl ester).

Fly spray. 112, 794P.

551-572-993-1021.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, methyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_3$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, methyl ester).

Fly spray. 112, 794P.

551-572-994.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, 2-ethylhexyl ester;  $(CH_3)_2CHCH_2COOCH_2COCOOCH_2C_6H_{11}$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, 2-ethylhexyl ester).

Fly spray. 112, 794P.

551-572-995-1001.

Enanthic acid,  $\alpha,\gamma$ -dioxo-, butyl ester;  $C_6H_7COCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketoenanthic acid, butyl ester).

Fly spray. 112, 794P.

551-572-995-1001.

Isocaproic acid,  $\alpha,\gamma$ -dioxo-, butyl ester;  $(CH_3)_2CHCOCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketoisocaproic acid, butyl ester).

Fly spray. 112, 794P.

551-572-997-1001.

Caproic acid,  $\alpha,\gamma$ -dioxo-, butyl ester;  $C_6H_5COCH_2COCOOCH_2C_6H_5$ . ( $\alpha,\gamma$ -Diketocaproic acid, butyl ester).

Fly spray. 112, 794P.

551-572-999-1011.

Valeric acid,  $\alpha,\gamma$ -dioxo-, ethyl ester;  $CH_3COCH_2COCOOCH_2C_6H_5$ . (Ethyl acetyl pyruvate).

T flies at 1%. 112, 792P.

551-572-1001-1045.

Acids, carboxylic,  $\alpha,\gamma$ -dioxo-,  $\gamma$ -substituted-, alkyl esters;  $ROOCH_2COCOOCH_2R'$ . (Carboxylic acid,  $\gamma$ -substituted- $\alpha$   $\gamma$ -dioxo, alkyl ester;  $\gamma$ -substituted- $\alpha,\gamma$ -diketocarboxylic acid esters).

Fly spray. 112, 794P.

551-581-620-1024.

1, 2-Pyran, 6-carboxylic acid, 2, 2-dimethyl-4-hydroxy-, methyl ester;  $(CH_3)_2C(C_2H_5O)(OH)COOCH_3$ . (Mesityl oxide oxalate methyl ester enol isomer).

T houseflies at 2-5%. 793P.

551-581-625-951-1003-1030.

2-Furanacrylic acid, *m*-hydroxyphenyl ester;  $(C_6H_5O)CH:CHCOOCH_2OH$ . (*m*-Hydroxyphenyl furylacrylate). 552.

551-581-625-951-1003-1030.

2-Furanacrylic acid, *o*-hydroxyphenyl ester;  $(C_6H_5O)CH:CHCOOCH_2OH$ . (*o*-Hydroxyphenyl furylacrylate). 552.

551-581-625-951-1003-1030.

2-Furanacrylic acid, *p*-hydroxyphenyl ester;  $(C_6H_5O)CH:CHCOOCH_2OH$ . (*p*-Hydroxyphenyl furylacrylate). 552.

551-581-625-951-1022.

Salicylic acid, tetrahydrofurfuryl ester;  $(C_4H_7O)CHOOCH_2OH$ . (Tetrahydrofurfuryl salicylate). 552.

551-581-730-740-951-1003-1021.

Hyocyanamine;  $C_{17}H_{25}O_2N$ .

ST oriental peach moths. 1094.

551-581-730-740-951-1003-1021-1276.

Hyocyanamine hydrobromide;  $(C_{17}H_{25}O_2N)HBr$ .

NT tobacco worm moths. 553.

551-581-730-740-951-1003-1021-1389.

Hyocyanamine sulfate;  $(C_{17}H_{25}O_2N)_2H_2SO_4$ .T *Aphis rumicis*. 1152.

551-581-730-740-951-1003-1021-1389.

Atropine sulphate;  $(C_{17}H_{23}NO_3)_2H_2SO_4$ .T *Aphis rumicis*;

NT Japanese beetle. 1008, 1152.

551-581-924-951-1021.

Salicylic acid, 2-naphthyl ester;  $C_{10}H_7OOCCH_2OH$ .( $\beta$ -Naphthyl salicylate).

MT codling moths; NT clothes moths and screw-

worms. 156, 739, 915, 1176.

551-581-951-999-1021.

Salicylic acid, amyl ester;  $HOC_6H_4COOCH_2C_5H_{11}$ . (Amyl salicylate).

NT oriental peach moths. 508.

551-581-951-1011-1021.

Benzoic acid, *p*-hydroxy-, ethyl ester;  $HOC_6H_4COOCH_2C_2H_5$ .

T as mothproofing agent. 404P, 870P, 1175.

551-581-951-1022.

Salicylic acid, methyl ester;  $HOC_6H_4COOCH_3$ . (Methyl salicylate).T *Lucilia cuprina*; MT *Tenebrio molitor*; NT *Chrysomphalus aurantii*. 268, 841, 849.

551-581-951-1022.

Cresotic acids, methyl esters, CU;  $HOC_6H_4COOCH_3$ . (Benzoic acids, methoxyhydroxy-).

T as mothproofing agent. 1175, 1363P.

551-581-952-1021.

Salicylic acid, phenyl ester;  $HOC_6H_4COOC_6H_5$ . (Phenyl salicylate; Salol).

HT codling moths; T roaches and as mothproofing agent; ST screwworms and mosquitoes. 156, 487, 559, 587, 1164P, 1165P, 1175, 1179, 1291.

551-581-952-1021.

Benzoic acid, *o*-tolyl ester;  $C_6H_5COOCH_2C_6H_4OH$ . (*o*-Cresyl benzoate).

T codling moths. 915.

551-581-1003-1011.

Lactic acid, ethyl ester;  $CH_3CH(OH)COOCH_2C_2H_5$ . (Ethyl lactate; ethyl 2-hydroxypropanoate).

HT rice weevil. 1180.

551-581-1003-1021.

Lactic acid, methyl ester;  $CH_3CH(OH)COOCH_3$ . (Methyl lactate; methyl 2-hydroxypropanoate).

NT rice weevil. 1180.

551-581-1011-1021.

Glycol, monoformate;  $HCHOOCCH_2OH$ . ( $\beta$ -Hydroxyethylformate).



- NT red scale. 268.  
 551-583-620-625-950-951.  
 Fluorescein;  $C_{20}H_{12}O_5$ . (Resorcinolphthalein).  
 HT codling moth larvae; NT mosquito larvae. 487, 1291.  
 551-582-1003-1011.  
 Acetin, mono-;  $CH_3COOCH_2CHOHCH_2OH$ .  
 T *Lucilia cuprina* larvae. 849.  
 551-583-925-999-1011.  
 Mannitan, monolaurate;  $C_{11}H_{23}COO(C_6H_{11}O_4)$ . (NNO).  
 T many insects.  
 551-583-951-1022.  
 Gallic acid, methyl ester;  $(OH)_3C_6H_2COOCH_3$ . (Methyl gallate; methyl ester of 3, 4, 5-trihydroxybenzoic acid).  
 ST screwworms at 0.07%. 156.  
 551-588-852-951-1011-1142.  
 Phenol, 2, 4-dichloro-, copper acetate compound;  $Cl_2C_6H_3OH.Cu(CH_3COO)_2$ . (Copper acetate of 2, 4-dichlorophenol). 362P.  
 551-588-852-951-1011-1244.  
 Phenol, 2, 4-dichloro-, zinc acetate compound;  $Cl_2C_6H_3OH.Zn(CH_3COO)_2$ . (Zinc acetate of 2, 4-dichlorophenol). 362P.  
 551-588-853-951-1012-1142.  
 Toluene, 4-hydroxy-, 2, 3, 5-trichloro-, copper acetate compound;  $Cl_3C_6H_2OH.Cu(CH_3COO)_2$ . (Copper acetate of 2, 3, 5-trichloro-4-hydroxy-1-methylbenzene). 362P.  
 551-591-625-951-1003-1021-1030.  
 Furanacrylic acid, guaiacol ester;  $(C_6H_5O)CH:CHCOOC_6H_4OCH_3$ . (Guaiacol furylacrylate). 552.  
 551-591-625-951-1022.  
 2-Furoic acid, 2-methoxyphenyl ester;  $(C_6H_5O)COOC_6H_4OCH_3$ . (Guaiacol furoate). 552.  
 551-591-851-951-1011-1022.  
 Benzoic acid, benzoyloxy-, 2-chloroethyl ester, CU;  $C_6H_5CH_2OC_6H_4COOCH_2CH_2Cl$ . (Benzoic acid, phenylmethoxy-, 2-chloroethyl ester).  
 Fly spray. 112, 693P.  
 551-591-851-952-1011-1021.  
 Benzoic acid, o-benzoyloxy-, 2-chloroethyl ester;  $C_6H_5CH_2OC_6H_4COOCH_2CH_2Cl$ . (Benzoic acid, o-phenylmethoxy-, 2-chloroethyl ester).  
 Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.  
 551-591-851-953-1003-1022.  
 Benzoic acid, 2-chloro-4-methoxy-, propyl ester;  $CH_3O(Cl)C_6H_4COOC_3H_7$ . (Propyl ester of 2-chloro-4-methoxy-1-benzoic acid). 359P.  
 551-591-951-999-1021.  
 Caproic acid, o-methoxyphenyl ester;  $C_6H_5COOC_6H_4OCH_3$ . (Guaiacol n-caproate).  
 NT *Chrysomphalus aurantii*. 268.  
 551-591-951-1001-1022.  
 Benzoic acid, o-methoxy-, butyl ester;  $C_6H_5(OCH_3)COOC_4H_9$ . (n-Butyl o-methoxybenzoate).  
 NT *Bombyx mori*. 559.  
 551-591-951-1011-1022.  
 Anisic acid, ethyl ester;  $CH_3OC_6H_4COOC_2H_5$ . (Ethyl anisate).  
 T screwworms at 0.10-0.17%. 156.  
 551-591-951-1022.  
 Anisic acid, methyl ester;  $CH_3OC_6H_4COOCH_3$ . (Methyl anisate).  
 HT screwworms at 0.05-0.08%. 156.  
 551-591-952-1001-1021.  
 Benzoic acid, o-phenoxy-, butyl ester;  $C_6H_5OC_6H_4COOC_4H_9$ . (Butyl ester of 2-phenoxy-1-benzoic acid). 359P.  
 551-591-952-1011-1021.  
 Acetic acid, benzoyloxy-o-phenyl ester;  $C_6H_5CH_2OC_6H_4OOCCH_3$ . (Ether, o-acetoxyphenyl benzyl).  
 Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.  
 551-591-952-1022.  
 Benzoic acid, o-methoxy-, phenyl ester;  $CH_3OC_6H_4COOC_6H_5$ . (Phenyl ester of 2-methoxy-1-benzoic acid). 359P.  
 551-591-952-1023.  
 Benzoic acid, o-benzoyloxy-, methyl ester;  $C_6H_5CH_2OC_6H_4COOCH_3$ . (Benzoic acid, o-phenylmethoxy-, methyl ester; benzyl ether of 2-hydroxy methyl benzoate).  
 Fly spray. 112, 693P.  
 551-591-954-1011-1021-1325.  
 Phosphonium hydroxide, (4-carbethoxyphenoxy) triphenyl-;  $(C_6H_5OOCCH_2C_6H_5O)(C_6H_5)_3POH$ .  
 T as mothproofing agent. 441P, 1179.  
 551-591-999-1012-1109-1389.  
 Diethyleneglycol sulfate, lauryl ester, ammonium salt;  $NH_4OSO_3OCH_2CH_2OCH_2CH_2OOC(C_6H_5)_{10}CH_3$ . Ammonium lauryl diethylene glycol sulfate).  
 MT mosquito larvae. 487.  
 551-592-952-1024.  
 Benzoic acid, 3, 5-dimethoxy-, benzyl ester;  $(CH_3O)_2C_6H_3COOCH_2C_6H_5$ . 359P.  
 551-592-1001-1013.  
 Ethanol, 2-(2-butoxyethoxy)-, acetate;  $C_6H_5O(CH_2)_2O(CH_2)_2OOCCH_3$ . (Diethylene glycol mono-butyl ether acetate).  
 T black fly. 589P.  
 551-593-951-999-1011-1023.  
 Benzoic acid, 3, 5-dimethoxy-4-ethoxy-, amyl ester;  $C_6H_5O(CH_3)_2C_6H_3COOC_5H_{11}$ . 359P.  
 551-593-951-1024.  
 Benzene, tetramethoxy-, CU?  $C_6H_2(OCH_3)_4$ . (Methoxy trimethyl gallate).  
 NT *Bombyx mori*. 561.  
 551-625-851-1003-1011-1030.  
 Ethanol, 2-chloro-, 2-furanacrylate;  $C_6H_5OCH:CHCOOC_2H_4Cl$ . (2-Chloroethyl  $\beta$ -furylacrylate). 552.  
 551-625-851-1011-1021.  
 Ethanol, 2-chloro-, furoate;  $C_6H_5OOCOC_2H_4Cl$ . (2-Chloroethyl furoate). 552.  
 551-625-853-1011-1021.  
 Acetic acid, dichloro-, tetrahydrofurfuryl ester;  $CHCl_2COOCH_2(C_4H_7O)$ . (Tetrahydrofurfuryl dichloroacetate). 552.  
 551-625-951-1003-1021-1030.  
 2-Furanacrylic acid, m-tolyl ester;  $(C_6H_5O)CH:CHCOOC_6H_4CH_3$ . (m-Cresyl furylacrylate). 552.  
 551-625-951-1003-1021-1030.  
 2-Furanacrylic acid, tolyl ester, CU;  $(C_6H_5O)CH:CHCOOC_6H_4CH_3$ . (Cresyl furylacrylate). 552.  
 551-625-951-1003-1021-1030.  
 Cinnamic acid, tetrahydrofurfuryl ester;  $(C_6H_7O)CH_2OOCCH:CHC_6H_5$ . (Tetrahydrofurfuryl cinnamate). 552.  
 551-625-951-1003-1030.  
 2-Furanacrylic acid, phenyl ester;  $(C_6H_5O)CH:CHCOOC_6H_5$ . (Phenyl furylacrylate). 552.  
 551-625-951-1022.  
 2-Furoic acid, m-tolyl ester;  $(C_6H_5O)COOC_6H_4CH_3$ . (m-Cresyl furoate). 552.  
 551-625-951-1022.  
 2-Furoic acid, p-tolyl ester;  $(C_6H_5O)COOC_6H_4CH_3$ . (p-Cresyl furoate; p-tolyl furoate; p-tolyl ester of pyromucic acid).  
 MT mosquito larvae. 487, 552.  
 551-625-972-1001-1024-1030.  
 Chrysanthemic acid, furfuryl ester;  $(C_6H_5O)CH_2OOC(C_6H_5)(CH_2)_3CH:C(CH_3)_2$ . (Chrysanthemum monocarboxylic acid, furfuryl ester).  
 MT *Aphis rumicis*. 650.  
 551-625-999-1021.  
 Pivalic acid, tetrahydrofurfuryl ester;  $(C_4H_7O)CH_2OOCOC(CH_3)_3$ . (Tetrahydrofurfuryl trimethylacetate). 552.  
 551-625-1003-1021-1030.  
 2-Furanacrylic acid, tetrahydrofurfuryl ester;  $(C_4H_7O)CH_2OOCCH:CH(C_6H_5O)$ . (Tetrahydrofurfuryl  $\beta$ -furylacrylate). 552.  
 551-626-950-1011-1021.  
 Piperonyllic acid, ethyl ester;  $CH_3O_2C_6H_4COOC_2H_5$ . (Ethyl piperonylate).  
 NT as synergist with pyrethrum against houseflies. 617.  
 551-659-951-1011-1022.  
 Benzoic acid, (2-hydrasoneethyl)-, ethyl ester?  $H_2N:CHCH_2C_6H_4COOC_2H_5$ . (Acetaldehyde phenylcarboxylic acid ethyl ester hydrasone; ethylidene-phenylcarboxylic acid ethyl ester hydrasone; ethylidenehydrasonephenylcarboxylic acid-ethyl ester).  
 T as mothproofing agent. 328P, 330P, 874P, 1176.  
 551-671-951-1011-1021.  
 Benzocaine;  $NH_2C_6H_4COOC_2H_5$ . (Ethyl p-aminobenzoate; anaesthetin).  
 NT screwworms. 156.



- 551-671-951-1022.  
Anthrnilic acid, methyl ester;  $\text{NH}_2\text{C}_6\text{H}_4\text{COOCH}_3$ . (Anthrnilate, methyl).  
NT houseflies. 1276.
- 551-681-951-1012.  
Glycine, *N*-phenyl-, ethyl ester  $\text{C}_6\text{H}_5\text{NHCH}_2\text{COOC}_2\text{H}_5$ .  
Hs.  
T screwworms at 0.33-0.67%. 156.
- 551-681-972-1001-1012-1023-1030.  
Chrysanthemic acid, diethanolamine ester;  $\text{C}_6\text{H}_5\text{-NHCH}_2\text{CH}_2\text{OOC}(\text{C}_6\text{H}_5)_2(\text{CH}_2)_2\text{CH}_2\text{C}(\text{CH}_3)_2$ . (Chrysanthemum monocarboxylic acid, diethanol amine ester).  
MT *Aphis rumicis*. 650.
- 551-681-975-1027.  
Acids, substituted aminocarboxylic-, esters, CU;  
XHNRCOOY. 193P.
- 551-701-730-740-983-1022-1030.  
Oleic acid, nicotine cyanide compound. (Nicotine cyanide oleate). 916P.
- 551-701-730-983-1021-1030.  
Oleic acid, pyridine cyanide compound. (Pyridine cyanide oleate). 916P.
- 551-701-951-999-1021-1030.  
2-Buten-1-ol, 1-cyano-, benzoate;  $\text{CH}_3\text{CH}:\text{CHCH}(\text{CN})\text{OOCCH}_2\text{C}_6\text{H}_5$ . (Crotonaldehydecyanohydrin benzoate). 939P.
- 551-701-961-1011-1021.  
Cyclohexanol, 1-cyano-, acetate;  $\text{CH}_3\text{COO}(\text{C}_6\text{H}_{11})\text{CN}$ . (Cyclohexanonecyanohydrin acetate). 939P.
- 551-701-1012.  
Acetic acid, cyano-, ethyl ester;  $\text{CH}_3(\text{CN})\text{COOC}_2\text{H}_5$ . (Ethyl cyanacetate).  
MT codling moth; NT rice weevil. 915, 1180.
- 551-740-950-1001-1021.  
3-Indolebutyric acid, methyl ester;  $(\text{C}_6\text{H}_5\text{N})\text{C}_6\text{H}_5\text{-COOCH}_3$ . (Methylindole butyrate).  
HT *Culex quinquefasciatus*. 157.
- 551-792-924-999-1022.  
1-Naphthoic acid, 2-methoxy-, amyl ester;  $\text{CH}_3\text{-OC}_{10}\text{H}_7\text{COO}(\text{CH}_2)_4\text{CH}_3$ . 359P.
- 551-841-1003-1011.  
Propionic acid,  $\alpha$ -bromo-, ethyl ester;  $\text{CH}_3\text{CHBrCOOC}_2\text{H}_5$ . (Ethyl 1-bromopropionate).  
HT rice weevil. 1180, 1181.
- 551-841-1003-1011.  
Propionic acid,  $\beta$ -bromo-, ethyl ester;  $\text{BrCH}_2\text{CH}_2\text{-COOC}_2\text{H}_5$ . (Ethyl  $\beta$ -bromopropionate).  
MT rice weevil. 1180, 1181.
- 551-841-1003-1011.  
Propanol, 2-bromo-, acetate;  $\text{CH}_3\text{COOCH}_2\text{CHBrCH}_3$ . ( $\beta$ -Bromo *n*-propyl acetate).  
ST *Sitophilus oryzae*; NT red scale. 268, 1180.
- 551-841-1003-1011.  
Propanol, 3-bromo-, acetate;  $\text{CH}_3\text{COOCH}_2\text{CH}_2\text{CH}_2\text{-Br}$ . (3-Bromopropyl acetate;  $\gamma$ -bromopropyl acetate).  
NT red scale and rice weevil. 268, 1180.
- 551-841-1003-1027.  
Propionic acid,  $\alpha$ -bromo-, alkyl ester, CU;  $\text{CH}_3\text{CH}_2\text{-BrCOOR}$ . 1181.
- 551-841-1003-1027.  
Propionic acid,  $\beta$ -bromo-, alkyl esters, CU;  $\text{CH}_3\text{BrCH}_2\text{-COOR}$ . 1181.
- 551-841-1011-1021.  
Acetic acid, bromo-, methyl ester;  $\text{OH}_2\text{BrCOOCH}_3$ . (Methyl bromoacetate).  
HT rice weevil; NT red scale. 268, 1180, 1181.
- 551-841-1012.  
Ethanol, 2-bromo-, acetate;  $\text{CH}_3\text{COOCH}_2\text{CH}_2\text{Br}$ . (2-Bromoethyl acetate;  $\beta$ -bromoethyl acetate).  
HT rice weevil; ST wireworms. 268, 846, 1180.
- 551-841-1012.  
Acetic acid, bromo-, ethyl ester;  $\text{CH}_3\text{BrCOOCH}_2\text{CH}_3$ . (Ethyl bromoacetate; ethyl bromoethanoate).  
HT rice weevil; T red scale. 268, 1180, 1181.
- 551-842-951-1003-1011.  
Hydrocinnamic acid,  $\alpha,\beta$ -dibromo-, ethyl ester;  $\text{C}_6\text{H}_5\text{CHBrCHBrCOOC}_2\text{H}_5$ .  
NT as mothproofing agent. 239.
- 551-851-951-1011-1021.  
Acetic acid, chloro-, benzyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{OOCCH}_2\text{-Cl}$ . (Benzyl chloroacetate).  
NT red scale. 268.
- 551-851-961-1011.  
Acetic acid, chloro-, cyclohexyl ester;  $\text{C}_6\text{H}_{11}\text{OOCCH}_2\text{-Cl}$ . (Cyclohexanol monochloroacetate).
- HT *Dermestes vulpinus*, cockroaches, flies, ants, aphids, and Japanese beetles. 1085P.
- 551-851-989-1011.  
Acetic acid, chloro-, dodecyl ester;  $\text{ClCH}_2\text{COOC}_{12}\text{-Hss}$ . (Chloroacetic acid, *n*-dodecyl ester).  
Fly spray. 107P, 112.
- 551-851-1001-1011.  
Acetic acid, chloro-, butyl ester;  $\text{CH}_3\text{ClCOOCH}_2\text{-CH}_2\text{CH}_2\text{CH}_3$ . (*n*-Butyl chloroacetate; butyl-2-chloroethanoate).  
HT *Sitophilus oryzae*. 1180, 1181.
- 551-851-1001-1011.  
Acetic acid, chloro-, *sec*-butyl ester;  $\text{CH}_3\text{ClCOOCH}_2(\text{CH}_2)_2\text{CH}_3$ . (*sec*-Butyl chloroacetate).  
HT *Sitophilus oryzae*. 1180, 1181.
- 551-851-1003-1011.  
Propionic acid,  $\alpha$ -chloro-, ethyl ester;  $\text{CH}_3\text{ClCH}_2\text{-COOCH}_2\text{CH}_3$ . (Ethyl 2-chloropropionate; ethyl 2-chloropropanoate).  
HT rice weevil. 1180, 1181.
- 551-851-1003-1011.  
Acetic acid, chloro-, isopropyl ester;  $\text{CH}_3\text{ClCOOCH}_2(\text{CH}_3)_2$ . (Isopropyl chloroacetate).  
HT rice weevil. 1180, 1181.
- 551-851-1003-1027.  
Propionic acid,  $\beta$ -chloro-, alkyl esters, CU;  $\text{CH}_3\text{-ClCH}_2\text{COOR}$ . 1181.
- 551-851-1011-1021.  
Acetic acid, chloro-, methyl ester;  $\text{CH}_3\text{ClCOOCH}_3$ . (Methyl chloroacetate; methyl chloroethanoate).  
HT *Sitophilus oryzae*; T *Aphis rumicis*. 648, 1180, 1181, 1182P.
- 551-851-1012.  
Acetic acid, chloro-, ethyl ester;  $\text{CH}_3\text{ClCOOCH}_2\text{CH}_3$ . (Ethyl chloroacetate; ethyl chloroethanoate).  
HT *Sitophilus oryzae*. 1180, 1181.
- 551-851-1012.  
Ethanol, 2-chloro-, acetate;  $\text{CH}_3\text{COOCH}_2\text{CH}_2\text{Cl}$ . ( $\beta$ -Chloroethyl acetate).  
HT *Sitophilus oryzae*; T wireworms. 846, 1180.
- 551-852-951-1021.  
Phenol, 2, 4-dichloro-, formate;  $(\text{Cl})_2\text{C}_6\text{H}_3\text{OOCH}$ . (Formate of 2, 4-dichlorophenol). 362P.
- 551-852-1011-1021.  
Ethanol, 2, 2-dichloro-, formate;  $\text{Cl}_2\text{CHCH}_2\text{OOCH}$ . ( $\beta,\beta'$ -Dichloroethyl carbonate).  
ST codling moth. 915.
- 551-852-1011-1027.  
Acetic acid, dichloro-, alkyl esters, CU;  $\text{CHCl}_2\text{COOR}$ . 1181.
- 551-852-1012.  
Acetic acid, dichloro-, ethyl ester;  $\text{CHCl}_2\text{COOCH}_2\text{-CH}_3$ . (Ethyl dichloroacetate; ethyl dichloroethanoate).  
HT rice weevil. 1180, 1181.
- 551-852-1012.  
Ethanol, 2-chloro-, chloroacetate;  $\text{Cl}(\text{CH}_2)_2\text{OOCCH}_2\text{-Cl}$ . ( $\beta$ -Chloroethyl monochloroacetate).  
T *Dermestes vulpinus*. 1085P.
- 551-853-951-1012.  
Benzyl alcohol,  $\alpha$ -(trichloromethyl)-, acetate;  $\text{C}_6\text{H}_5\text{-CH}(\text{CCl}_3)\text{OOCCH}_3$ . (Trichloromethylphenylcarbinol acetate). 851P.
- 551-853-951-1022.  
*p*-Cresol, 2, 3, 5-trichloro-, formate;  $\text{CH}_3\text{Cl}_3\text{C}_6\text{-HOOCH}$ . (Formate of 2, 3, 5-trichloro-4-hydroxy-1-methylbenzene). 362P.
- 551-853-1001-1011.  
Chloreton $\bar{e}$  acetate;  $\text{Cl}_3\text{CC}(\text{CH}_3)_2\text{OOCCH}_3$ . (Acetone-chloroform acetate; tertiary trichlorobutyl acetate). 851P.
- 551-853-1001-1011.  
2-Propanol, 1, 3-dichloro-, 2-chloromethyl-, acetate;  $\text{CH}_3\text{COOC}(\text{CH}_2\text{Cl})_2$ . ( $\beta,\beta,\beta'$ -Trichlorotertbutyl acetate).  
NT red scale. 268.
- 551-853-1003-1011.  
2-Propanol, 1, 3-dichloro-, chloroacetate;  $(\text{CH}_2\text{Cl})_2\text{-COOCH}_2\text{CH}_3$ . ( $\beta,\beta'$ -Dichloroisopropyl monochloroacetate).  
T *Dermestes vulpinus*. 1085P.
- 551-853-1003-1011.  
2-Propanol, 1, 2, 3-trichloro-, acetate;  $(\text{CH}_2\text{Cl})_2\text{CCl-OOCH}_3$ ? (Trichloroisopropyl acetate). 851P.

- 551-853-1011-1027.  
Acetic acid, trichloro-, alkyl ester, CU;  $\text{CCl}_3\text{COOR}$ . 1181.
- 551-853-1012.  
Acetic acid, trichloro-, ethyl ester;  $\text{CCl}_3\text{COOCH}_2\text{CH}_3$  (Ethyl trichloroacetate).  
HT rice weevil. 1180, 1181.
- 551-854-951-1013.  
Benzyl alcohol, *p*-chloro- $\alpha$ -(trichloromethyl)-, acetate;  $\text{ClCH}_2\text{CH}(\text{CCl}_3)\text{OOCCH}_3$ . (Trichloromethyl-*p*-chlorophenylcarbinol acetate). 851P.
- 551-854-1001-1011.  
Chlorotone chloroacetate;  $\text{ClCH}_2\text{COOC}(\text{CH}_3)_2\text{CCl}_3$ . (Acetone-chloroform monochloroacetate). 851P.
- 551-912-1012.  
Acetic acid, 9-fluorenyl ester;  $(\text{C}_{15}\text{H}_9)\text{OOCCH}_3$ . (9-Fluorenyl acetate).  
NT screwworm larvae. 944.
- 551-924-951-1021.  
Benzoic acid, 2-naphthyl ester;  $\text{C}_{10}\text{H}_7\text{OOCCH}_2\text{CH}_3$ . ( $\beta$ -Naphthyl benzoate).  
NT Clothes moths. 739, 1176.
- 551-924-951-1021.  
Benzoic acid, naphthyl ester, CU;  $\text{C}_{10}\text{H}_7\text{OOCCH}_2\text{CH}_3$ . (Naphthyl benzoate).  
ST Japanese beetle; NT *Tineola biselliana* and *Attagenus piceus*. 494, 739.
- 551-924-972-1001-1023-1030.  
Chrysanthemumic acid, 1-naphthyl ester;  $\text{C}_{10}\text{H}_7\text{OOC}(\text{C}_6\text{H}_5)_2\text{CH}:\text{C}(\text{CH}_3)_2$ . (Chrysanthemum monocarboxylic acid,  $\alpha$ -naphthol ester).  
ST *Aphis rumicis*. 650.
- 551-951-989-1021.  
Benzoic acid, dodecyl ester;  $\text{C}_6\text{H}_5\text{COOC}_{12}\text{H}_{25}$ . (Benzoic acid, *n*-dodecyl ester).  
Fly spray. 107P, 112.
- 551-951-999-1021.  
Benzoic acid, amyl ester;  $\text{C}_6\text{H}_5\text{COOC}_5\text{H}_{11}$ . (Amyl benzoate).  
T tobacco worm moths. 1012.
- 551-951-999-1021.  
Benzoic acid, isomyl ester;  $\text{C}_6\text{H}_5\text{COOC}_5\text{H}_{11}$ . (Iso-amylyl benzoate; 3-methyl-1-butanol benzoate).  
NT red scale. 268.
- 551-951-1001-1011.  
 $\alpha$ -Toluic acid, isobutyl ester;  $\text{C}_6\text{H}_5\text{CHCOOC}_4\text{H}_9$ . (Iso-butyl phenylacetate).  
ST oriental peach moth. 1094.
- 551-951-1001-1011.  
Valeric acid, phenethyl ester;  $\text{CH}_3(\text{CH}_2)_3\text{COOC}_2\text{H}_4\text{C}_6\text{H}_5$ . (Phenyl ethyl valerate).  
ST wireworms. 846.
- 551-951-1001-1021.  
Benzoic acid, butyl ester;  $\text{C}_6\text{H}_5\text{COOC}_4\text{H}_9$ . (*n*-Butyl benzoate; butyl benzenecarboxylate).  
NT red scale. 268.
- 551-951-1001-1021.  
Benzoic acid, isobutyl ester;  $\text{C}_6\text{H}_5\text{COOCH}_2\text{CH}(\text{CH}_3)_2$ . (Isobutyl benzoate;  $\beta$ -methylpropyl benzenecarboxylate).  
NT red scale. 268.
- 551-951-1001-1021.  
Butyric acid, benzyl ester;  $\text{CH}_3(\text{CH}_2)_3\text{COOCH}_2\text{C}_6\text{H}_5$ . (Benzyl butyrate).  
NT red scale. 268.
- 551-951-1003-1011-1030.  
Cinnamic acid, ethyl ester;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOOC}_2\text{H}_5$ . (Ethyl cinnamate).  
T oriental peach moth. 508.
- 551-951-1003-1021-1030.  
Cinnamic acid, methyl ester;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOOCH}_3$ . (Methyl cinnamate).  
Attractant for oriental peach moth; NT wireworms. 508, 846.
- 551-951-1011-1021.  
Acetic acid, benzyl ester;  $\text{CH}_3\text{COOCH}_2\text{C}_6\text{H}_5$ . (Benzyl acetate).  
T *Aphis rumicis* and as mothproofing agent; NT red scale. 268, 1152, 1175, 1455P.
- 551-951-1011-1021.  
Benzoic acid, ethyl ester;  $\text{C}_6\text{H}_5\text{COOC}_2\text{H}_5$ . (Ethyl benzoate).  
T *Lasius cupripus* larvae. 849.
- 551-951-1021-1045.  
Benzyl alcohol, esters, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OOCR}$ . (Benzyl esters).  
T as mothproofing agent. 4P, 413P, 1175.
- 551-951-1022-1356.  
Phosphoric acid, tris (2-carbomethoxyphenyl) ester;  $(\text{C}_6\text{H}_4\text{COOCH}_3)_3\text{PO}_4$ . (Tri-(2-carbomethoxyphenyl) phosphate). 1016P.
- 551-951-1045.  
Phenol esters.  
T as mothproofing agent. 1101P, 1176.
- 551-951-1356.  
Phosphoric acid, tris (carboalkoxyphenyl) ester;  $(\text{ROOCC}_6\text{H}_4)_3\text{PO}_4$ . (Tri-(carboalkoxy-phenyl) phosphate). 1016P.
- 551-952-1003-1011-1030.  
Cinnamic acid, phenethyl ester;  $\text{C}_6\text{H}_5(\text{CH}_2)_2\text{COO}(\text{CH}_2)_2\text{C}_6\text{H}_5$ . ( $\beta$ -Phenyl ethyl cinnamate).  
NT *Bombyx mori* larvae. 559.
- 551-952-1003-1021-1030.  
Cinnamic acid, benzyl ester;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOOCH}_2\text{C}_6\text{H}_5$ . (Cinnamate benzyl).  
T houseflies. 1276.
- 551-952-1021.  
Benzoic acid, phenyl ester;  $\text{C}_6\text{H}_5\text{COOC}_6\text{H}_5$ . (Phenyl benzoate).  
NT screwworms. 156.
- 551-952-1021-1111.  
Stibine diphenyl-, acetate;  $(\text{C}_6\text{H}_5)_2\text{SbOOCCH}_3$ .  
T clothes moths. 639P.
- 551-952-1022.  
Benzoic acid, benzyl ester;  $\text{C}_6\text{H}_5\text{COOCH}_2\text{C}_6\text{H}_5$ . (Benzoate benzyl).  
MT tobacco worm moths; T houseflies. 1012, 1276.
- 551-952-1022.  
*m*-Cresol benzoate;  $\text{C}_6\text{H}_5\text{COOC}_6\text{H}_4\text{CH}_3$ .  
NT screwworms. 156.
- 551-952-1022.  
*p*-Cresol benzoate;  $\text{C}_6\text{H}_5\text{COOC}_6\text{H}_4\text{CH}_3$ .  
NT screwworms. 156.
- 551-952-1022-1356.  
Phosphoric acid, *o*-carbomethoxyphenyl, diphenyl ester;  $(\text{C}_6\text{H}_5)_2\text{C}_6\text{H}_4(\text{COOCH}_3)_2\text{PO}_4$ . [(2-Carbomethoxy-phenyl) diphenyl phosphate]. 1016P.
- 551-953-1012-1193-1291.  
Phosphonium chloride,  $\omega$ -carbomethoxymethyltriphenyl-;  $(\text{C}_6\text{H}_5\text{OOCCH}_2)_3(\text{C}_6\text{H}_5)\text{PCl}$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 551-957-1003-1011-1021.  
 $\alpha$ -Terpineol acetate;  $\text{C}_{10}\text{H}_{17}\text{OOCCH}_3$ . (Terpinyl acetate).  
T wireworms, flies, oriental peach moth, and other insects. 508, 592P, 846.
- 551-957-1003-1021-1045.  
 $\alpha$ -Terpineol esters. (Terpinyl esters).  
T flies and other insects; fly spray. 93P, 94P, 112, 592P.
- 551-957-1004-1021.  
 $\alpha$ -Terpineol propionate. (Terpinyl propionate).  
T flies and other insects. 592P.
- 551-961-991.  
Capric acid, cyclohexyl ester;  $\text{CH}_3(\text{CH}_2)_8\text{COOC}_6\text{H}_{11}$ . (Cyclohexyl caprate). 1174P.
- 551-961-1003-1011-1021.  
Borneol acetate;  $\text{C}_{10}\text{H}_{17}\text{OOCCH}_3$ . (Bornyl acetate).  
T wireworms. 846.
- 551-972-980-1001-1023-1030.  
Chrysanthemumic acid, ceryl ester;  $\text{C}_{26}\text{H}_{53}\text{OOC}(\text{C}_6\text{H}_5)(\text{CH}_2)_7\text{CH}:\text{C}(\text{CH}_3)_2$ . (Chrysanthemum monocarboxylic acid, ceryl ester).  
MT *Aphis rumicis*. 650.
- 551-972-985-1001-1023-1030.  
Chrysanthemumic acid, ceryl ester;  $\text{C}_{10}\text{H}_{19}\text{OOC}(\text{C}_6\text{H}_5)(\text{CH}_2)_7\text{CH}:\text{C}(\text{CH}_3)_2$ . (Chrysanthemum monocarboxylic acid, ceryl ester).  
MT *Aphis rumicis*. 650.
- 551-972-987-1001-1023-1030.  
Chrysanthemumic acid, tetradecyl ester;  $\text{C}_{14}\text{H}_{29}\text{OOC}(\text{C}_6\text{H}_5)(\text{CH}_2)_7\text{CH}:\text{C}(\text{CH}_3)_2$ . (Chrysanthemum monocarboxylic acid, myristyl ester).  
MT *Aphis rumicis*. 650.
- 551-972-989-1001-1023-1030.  
Chrysanthemumic acid, dodecyl ester;  $\text{C}_{12}\text{H}_{25}\text{OOC}(\text{C}_6\text{H}_5)(\text{CH}_2)_7\text{CH}:\text{C}(\text{CH}_3)_2$ . (Chrysanthemum monocarboxylic acid, lauryl ester).  
MT *Aphis rumicis*. 650.

- (C<sub>6</sub>H<sub>5</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, lauryl ester).  
MT *Aphis rumicis*. 650.
- 551-972-990-1001-1023-1030.  
Chrysanthemumic acid, 2-hendecyl ester; C<sub>11</sub>H<sub>23</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, undecyl-2 ester).  
MT *Aphis rumicis*. 650.
- 551-972-991-1001-1023-1030.  
Chrysanthemumic acid, decyl ester; C<sub>10</sub>H<sub>21</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, n-decyl ester).  
MT *Aphis rumicis*. 650.
- 551-972-993-1001-1023-1030.  
Chrysanthemumic acid, octyl ester; C<sub>8</sub>H<sub>17</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, octyl ester).  
MT *Aphis rumicis*. 650.
- 551-972-997-1001-1023-1030.  
Chrysanthemumic acid, hexyl ester; C<sub>6</sub>H<sub>13</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, hexyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-999-1001-1023-1030.  
Chrysanthemumic acid, amyl ester; C<sub>5</sub>H<sub>11</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, n-amyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-999-1001-1023-1030.  
Chrysanthemumic acid, isocamyl ester; (Chrysanthemum monocarboxylic acid, isocamyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-999-1001-1023-1030.  
Chrysanthemumic acid, *tert*-amyl ester; (Chrysanthemum monocarboxylic acid, tertiary amyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-1001-1003-1023-1030.  
Chrysanthemumic acid, propyl ester; C<sub>3</sub>H<sub>7</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, n-propyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-1001-1003-1023-1030.  
Chrysanthemumic acid, isopropyl ester; (Chrysanthemum monocarboxylic acid, isopropyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-1001-1011-1023-1030.  
Chrysanthemumic acid, ethyl ester; C<sub>2</sub>H<sub>5</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, n-butyl ester).  
MT *Aphis rumicis*. 650.
- 551-972-1002-1023-1030.  
Chrysanthemumic acid, butyl ester; C<sub>4</sub>H<sub>9</sub>OOCC(CH<sub>3</sub>)(CH<sub>2</sub>)<sub>8</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>. (Chrysanthemum monocarboxylic acid, n-butyl ester).  
MT *Aphis rumicis*. 650.
- 551-972-1002-1023-1030.  
Chrysanthemumic acid, isobutyl ester; (Chrysanthemum monocarboxylic acid, isobutyl ester).  
MT *Aphis rumicis*. 650.
- 551-972-1002-1023-1030.  
Chrysanthemumic acid, *sec*-butyl ester; (Chrysanthemum monocarboxylic acid, secondary butyl ester).  
ST *Aphis rumicis*. 650.
- 551-972-1002-1023-1030.  
Chrysanthemumic acid, *tert*-butyl ester; (Chrysanthemum monocarboxylic acid, tertiary butyl ester).  
MT *Aphis rumicis*. 650.
- 551-983-1021.  
Stearic acid, methyl ester; C<sub>17</sub>H<sub>35</sub>COOCH<sub>3</sub>. (Methyl stearate; methyl octadecanoate).  
NT *Aphis rumicis*. 1378.
- 551-983-1021-1030.  
Oleic acid, methyl ester; C<sub>17</sub>H<sub>33</sub>COOCH<sub>3</sub>.  
HT *Aphis rumicis*. 1378.
- 551-989-1021.  
Lauric acid, methyl ester; C<sub>11</sub>H<sub>23</sub>COOCH<sub>3</sub>. (Methyl laurate; dodecylate).  
HT *Aphis rumicis*. 1378.
- 551-989-1021.  
Formic acid, dodecyl ester; HCOOC<sub>12</sub>H<sub>25</sub>. (Formic acid, n-dodecyl ester).  
Fly spray. 107P, 112.
- 551-989-1045.  
Dodecyl alcohol, esters. (n-Dodecyl esters).  
T lower forms of life. 107P.
- 551-990-1021.  
Hendecanoic acid, methyl ester; C<sub>10</sub>H<sub>21</sub>COOCH<sub>3</sub>. (Methyl undecanoate).  
HT *Aphis rumicis*. 1378.
- 551-991-1011-1030.  
Rhodinol acetate; CH<sub>3</sub>COOCH<sub>2</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(CH<sub>3</sub>)CH<sub>2</sub>. (2, 6-Dimethylocten-2-ol-8 acetate).  
NT wireworms. 846.
- 551-991-1011-1033.  
Geraniol acetate; (CH<sub>3</sub>)<sub>2</sub>C=CHC<sub>2</sub>H<sub>4</sub>C(CH<sub>3</sub>):CHCH<sub>2</sub>COOCH<sub>3</sub>. (Geranyl acetate).  
T *Lucilia cuprina*; ST wireworms; attractant for *Dermotopos* sp.; not attractive to oriental peach moth. 508, 846, 849, 890.
- 551-991-1011-1033.  
Linalol acetate; (CH<sub>3</sub>)<sub>2</sub>C=CHC<sub>2</sub>H<sub>4</sub>C(CH<sub>3</sub>)(CH:CH<sub>2</sub>)COOCH<sub>3</sub>. (Linalyl acetate).  
T *Lucilia cuprina* larvae; ST wireworms. 846, 849.
- 551-993-999.  
Caprylic acid, amyl ester; CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>COOCH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>. (Amyl caprylate).  
NT wireworms. 846.
- 551-993-999.  
Caprylic acid, isocamyl ester; C<sub>7</sub>H<sub>15</sub>COOCH<sub>2</sub>CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>. (Isoamyl n-caprylate; γ-methylbutyl octanoate).  
NT red scale. 268.
- 551-993-1001-1033.  
Geraniol butyrate; (CH<sub>3</sub>)<sub>2</sub>C=CHC<sub>2</sub>H<sub>4</sub>C(CH<sub>3</sub>):CHCH<sub>2</sub>COOC<sub>2</sub>H<sub>5</sub>. (Geranyl butyrate).  
ST *Dermotopos* sp. 890.
- 551-993-1011.  
2-Octanol acetate; C<sub>8</sub>H<sub>17</sub>CH(CH<sub>3</sub>)COOCH<sub>3</sub>. (*sec*-Octyl acetate).  
T *Sitophilus oryza*. 1180.
- 551-993-1021.  
Caprylic acid, methyl ester; C<sub>7</sub>H<sub>15</sub>COOCH<sub>3</sub>. (Methyl caprylate; methyl octanoate).  
HT *Aphis rumicis*; ST wireworms; NT *Sitophilus oryza*. 846, 1180, 1378.
- 551-993-1021.  
Formic acid, octyl ester; HCOO(CH<sub>2</sub>)<sub>7</sub>CH<sub>3</sub>. (Octyl formate).  
MT wireworms. 846.
- 551-995-1011.  
Acetic acid, heptyl ester; CH<sub>3</sub>COOC<sub>7</sub>H<sub>15</sub>. (n-Heptyl acetate).  
T *Sitophilus oryza*. 1180.
- 551-995-1011.  
Enanthic acid, ethyl ester; C<sub>8</sub>H<sub>17</sub>COOC<sub>2</sub>H<sub>5</sub>. (Ethyl n-heptylate; ethyl heptanoate).  
NT rice weevil. 1180.
- 551-995-1021.  
Enanthic acid, methyl ester; C<sub>8</sub>H<sub>17</sub>COOCH<sub>3</sub>. (Methyl n-heptylate; methyl heptanoate).  
HT *Aphis rumicis*; NT rice weevil. 1180, 1378.
- 551-997-999.  
Caproic acid, isocamyl ester; CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>COOC<sub>5</sub>H<sub>11</sub>. (Isoamyl n-caproate; γ-methyl butyl hexanoate).  
NT red scale. 268.
- 551-997-1001.  
Caproic acid, butyl ester; C<sub>6</sub>H<sub>13</sub>COOC<sub>4</sub>H<sub>9</sub>. (n-Butyl n-caproate; butyl hexanoate).  
NT red scale and silkworm. 268, 559.
- 551-997-1001.  
Caproic acid, isobutyl ester; CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>COOCH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>. (Iso-butyl caproate).  
ST red scale; NT *Bombyx mori* larvae. 268, 559.
- 551-997-1011.  
Caproic acid, ethyl ester; C<sub>6</sub>H<sub>13</sub>COOC<sub>2</sub>H<sub>5</sub>. (Ethyl n-caproate; ethyl hexanoate).  
NT rice weevil. 1180.
- 551-997-1021.  
Caproic acid, methyl ester; C<sub>6</sub>H<sub>13</sub>COOCH<sub>3</sub>. (Methyl caproate; hexylate; methyl hexanoate).  
MT *Aphis rumicis* and wireworms; NT rice weevil. 846, 1180, 1378.
- 551-999-1001.  
Butyric acid, amyl ester; C<sub>4</sub>H<sub>7</sub>COO(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>. (n-Amyl n-butyrate; pentyl butanoate).  
NT red scale. 268.
- 551-999-1001.  
Butyric acid, isocamyl ester; C<sub>4</sub>H<sub>7</sub>COOC<sub>5</sub>H<sub>11</sub>. (Iso-

- amyl *n*-butyrate;  $\gamma$ -methylpropyl butanoate).  
ST rice weevil and red scale. 268, 1180.
- 551-999-1001.  
Valeric acid, butyl ester;  $C_6H_5CO_2C_4H_9$ . (*n*-Butyl *n*-valerate; butyl pentanoate).  
NT rice weevil. 268, 1180.
- 551-999-1001.  
Valeric acid, isobutyl ester;  $CH_3(CH_2)_3COOCH_2CH(CH_3)_2$ . (Isobutyl valerate;  $\beta$ -methylpropyl pentanoate).  
T wireworms. 846.
- 551-999-1001.  
Isovaleric acid, isobutyl ester;  $(CH_3)_2CHCH_2CO_2CH_2CH(CH_3)_2$ . (Isobutyl isovalerate).  
NT rice weevil. 1180.
- 551-999-1003.  
Propionic acid, amyl ester;  $CH_3CH_2COO(CH_2)_4CH_3$ . (Amyl propionate; pentyl propanoate).  
NT wireworms. 846.
- 551-999-1003.  
Valeric acid, propyl ester;  $CH_3(CH_2)_3COOC_3H_7$ . (Propyl valerate).  
MT wireworms. 846.
- 551-999-1003.  
Isovaleric acid, propyl ester;  $(CH_3)_2CHCH_2CO_2C_3H_7$ . (*n*-Propyl isovalerate).  
NT rice weevil. 1180.
- 551-999-1011.  
Acetic acid, amyl ester;  $CH_3COO(CH_2)_4CH_3$ . (*n*-Amyl acetate; 1-pentanol acetate; amyl acetate ester).  
T *Tenebrio molitor* and *Lucilia cuprina*; NT red scale. 268, 841, 849.
- 551-999-1011.  
Acetic acid, isomyl ester;  $CH_3COO(CH_2)_3CH(CH_3)_2$ . (Isoamyl acetate; 3-methyl-1-butanol acetate;  $\gamma$ -methylbutyl ethanoate).  
T codling moth; NT red scale. 268, 915.
- 551-999-1011.  
Valeric acid, ethyl ester;  $C_6H_5CO_2CH_2CH_3$ . (Ethyl *n*-valerate; ethyl pentanoate).  
MT rice weevil. 1180.
- 551-999-1011.  
Isovaleric acid, ethyl ester;  $(CH_3)_2CHCH_2CO_2C_2H_5$ . (Ethyl isovalerate).  
HT rice weevil. 1180.
- 551-999-1011-1030.  
Seneciolic acid, ethyl ester;  $(CH_3)_2C:CHCOOC_2H_5$ . (Ethyl  $\beta,\beta$ -dimethyl acrylate).  
HT rice weevil. 1180.
- 551-999-1021.  
Formic acid, amyl ester;  $HCOO(CH_2)_4CH_3$ . (Amyl formate; pentyl methanoate).  
NT wireworms; not effective as attractant to oriental fruit moth. 508, 846.
- 551-999-1021.  
Formic acid, isoamyl ester;  $HCOOCH_2CH_2CH(CH_3)_2$ . (Isoamyl formate;  $\gamma$ -methylbutyl methanoate).  
HT rice weevil; T codling moth larvae. 257, 915, 1180.
- 551-999-1021.  
Valeric acid, methyl ester;  $C_6H_5CO_2CH_3$ . (Methyl *n*-valerate; methyl pentanoate).  
HT rice weevil. 1180.
- 551-1000.  
Valeric acid, amyl ester;  $C_6H_5COOC_5H_{11}$ . (Amyl valerianate).  
ST silken fungous beetle; NT oriental peach moth. 508, 899.
- 551-1000.  
Isovaleric acid, isoamyl ester;  $(CH_3)_2CHCH_2CO_2CH_2CH(CH_3)_2$ . (Isoamyl isovalerate).  
Attractant for oriental peach moth; NT rice weevil. 1094, 1180.
- 551-1001-1003.  
Butyric acid, propyl ester;  $CH_3CH_2CH_2COOC_3H_7$ . (*n*-Propyl *n*-butyrate).  
MT rice weevil. 1180.
- 551-1001-1008.  
Propionic acid, isobutyl ester;  $CH_3CH_2COOCH_2CH(CH_3)_2$ . (Isobutyl propionate;  $\beta$ -methylpropyl propanoate).  
NT red scale. 268.
- 551-1001-1011.  
Acetic acid, butyl ester;  $CH_3COOC_4H_9$ . (*n*-Butyl acetate).  
T *Lucilia cuprina*; MT clothes moths. 849, 915.
- 551-1001-1011.  
Acetic acid, isobutyl ester;  $CH_3COOCH_2CH(CH_3)_2$ . (Isobutyl acetate;  $\beta$ -methylpropyl ethanoate).  
NT wireworms. 846.
- 551-1001-1011.  
Butyric acid, ethyl ester;  $CH_3CH_2CH_2COOCH_2CH_3$ . (Ethyl *n*-butyrate; ethyl butanoate).  
HT rice weevil; ST red scale. 268, 1180.
- 551-1001-1011.  
Isobutyric acid, ethyl ester;  $(CH_3)_2CHCOOCH_2CH_3$ . (Ethyl isobutyrate).  
HT rice weevil; ST red scale. 268, 846, 1180.
- 551-1001-1021.  
Butyric acid, methyl ester;  $CH_3CH_2CH_2COOCH_3$ . (Methyl *n*-butyrate).  
HT rice weevil. 1180.
- 551-1001-1021.  
Formic acid, butyl ester;  $HCOOC_4H_9$ . (*n*-Butyl formate; butyl methanoate).  
NT red scale and rice weevil. 257, 268.
- 551-1001-1021.  
Formic acid, isobutyl ester;  $HCOOCH_2CH(CH_3)_2$ . (Isobutyl formate;  $\beta$ -methylpropyl methanoate).  
T rice weevil; MT wireworms. 257, 846, 1180.
- 551-1001-1021.  
Formic acid, *sec*-butyl ester;  $CH_3CH_2CH(CH_3)COOCH_3$ . (*sec*-Butyl formate).  
T rice weevil. 257.
- 551-1002.  
Butyric acid, butyl ester;  $CH_3CH_2CH_2COOC_4H_9$ . *n*-Butyl *n*-butyrate; butyl butanoate).  
ST red scale; NT rice weevil. 268, 846, 1180.
- 551-1002.  
Butyric acid, isobutyl ester;  $C_6H_5COOCH_2CH(CH_3)_2$ . (Isobutyl *n*-butyrate;  $\beta$ -methylpropyl butanoate).  
T codling moth; ST red scale; NT rice weevil. 268, 915, 1180.
- 551-1002.  
Isobutyric acid, isobutyl ester;  $(CH_3)_2CHCH_2COOCH_2CH(CH_3)_2$ . (Isobutyl isobutyrate).  
HT rice weevil; ST red scale. 268, 1180.
- 551-1003-1011.  
Acetic acid, propyl ester;  $CH_3COOC_3H_7$ . (*n*-Propyl acetate).  
NT *Chrysomphalus aurantii* and *Leptinotarsa desclimeata*. 268, 1009.
- 551-1003-1011.  
Acetic acid, isopropyl ester;  $CH_3COOC(CH_3)_2H$ . (Isopropyl acetate).  
NT *Chrysomphalus aurantii*. 268.
- 551-1003-1011.  
Propionic acid, ethyl ester;  $CH_3CH_2COOC_2H_5$ . (Ethyl propionate).  
NT red scale. 268.
- 551-1003-1011-1030.  
Acrylic acid, ethyl ester;  $CH_2=CHCOOC_2H_5$ . (Ethyl acrylate; ethyl propanoate).  
T red scale. 268.
- 551-1003-1021.  
Formic acid, propyl ester;  $HCOOC_3H_7$ . (*n*-Propyl formate).  
NT *Chrysomphalus aurantii*. 268.
- 551-1003-1021.  
Formic acid, isopropyl ester;  $(CH_3)_2CHOOCH$ . (Isopropyl formate).  
T confused flour beetle; NT *Chrysomphalus aurantii*. 13, 268.
- 551-1003-1021.  
Propionic acid, methyl ester;  $C_6H_5COOCH_3$ . (Methyl propionate).  
T *Chrysomphalus aurantii*. 268.
- 551-1003-1021-1030.  
Formic acid, allyl ester;  $HCOOCH_2CH=CH_2$ . (Allyl formate; 3-propenyl methanoate).  
T *Sitophilus oryzae*; NT *Chrysomphalus aurantii*. 257, 268, 846.
- 551-1004.  
Propionic acid, propyl ester;  $CH_3CH_2COOCH_2CH_2CH_3$ . (*n*-Propyl propionate; propyl propanoate).  
HT *Sitophilus oryzae*; T *Chrysomphalus aurantii*. 268, 1180.
- 551-1011-1021.  
Acetic acid, methyl ester;  $CH_3COOCH_3$ . (Methyl acetate).

- T Lucilia cuprina* and *Chrysomphalus aurantii*. 268, 849.
- 551-1011-1021.  
Formic acid, ethyl ester;  $\text{HCOOC}_2\text{H}_5$ . (Ethyl formate; ethyl methanoate).  
Used for fumigation of raisins, dried fruits, nuts, ether foodstuffs, and stored tobacco; NT *Chrysomphalus aurantii*. 27, 268, 494, 1047, 1184.
- 551-1012.  
Acetic acid, ethyl ester;  $\text{CH}_3\text{COOC}_2\text{H}_5$ . (Ethyl acetate).  
*T Lucilia cuprina* and as mothproofing agent; NT red scale. 268, 849, 1175, 1241P, 1242P.
- 551-1012-1030.  
Acetic acid, vinyl ester;  $\text{CH}_3\text{COOC}::\text{CH}_2$ . (Vinyl acetate).  
ST *Chrysomphalus aurantii*. 268.
- 551-1022.  
Formic acid, methyl ester;  $\text{HCOOCH}_3$ . (Methyl formate; methyl methanoate).  
HT *Aphis rumicis*; *T Lucilia cuprina*; ST red scale. 27, 257, 268, 763, 849, 1180, 1378.
- 552-571-1014.  
Oxalacetic acid, diethyl ester;  $\text{C}_6\text{H}_5\text{OCCCCOCH}_3\text{COOC}_2\text{H}_5$ . (Oxalacetic ester).  
T as mothproofing agent. 684P, 1175.
- 552-572-950-989-1021.  
Cinnamic acid,  $\alpha$ -acetyl-, 2-ethylhexyl ester?  $\text{CH}_3\text{COOC}::\text{CH}(\text{C}_6\text{H}_5)\text{COOCH}_2\text{CH}(\text{C}_6\text{H}_5)\text{C}_6\text{H}_5$ ? (Benzal-2-ethylhexylaceto-acetate). 1195P.
- 552-581-951-1002-1022.  
Phthalic acid, 4-hydroxy-, dibutyl ester;  $\text{HOOC}_2\text{H}_4\text{COOC}(\text{C}_4\text{H}_9)_2$ . (1-Hydroxyphenyl-3, 4-dicarboxylic acid dibutyl ester; 1-hydroxy-3, 4-phthalic acid ester).  
T as mothproofing agent. 404P, 1175.
- 552-581-1001-1012.  
Malic acid, ethyl ester;  $\text{C}_6\text{H}_5\text{OOCCH}_2\text{CH}(\text{OH})\text{COOC}_2\text{H}_5$ . (Ethyl malate).  
ST *Rhagoletis pomonella*. 899.
- 552-581-1003-1012.  
Acetic,  $\alpha,\gamma$ -di-  $\text{CH}_3\text{COOCH}_2\text{CH}(\text{OH})\text{CH}_2\text{OOCCH}_3$ . (Diacetin).  
*T Lucilia cuprina* larvae. 849.
- 552-582-1002.  
Tartaric acid, *d*-dibutyl ester;  $\text{C}_6\text{H}_5\text{OOC}(\text{CHOH})_2\text{COOC}_2\text{H}_5$ . (*n*-Butyl *d*-tartrate).  
NT red scale. 268.
- 552-591-952-1011-1021.  
Benzoic acid,  $\alpha$ -acetoxy-, phenyl ester;  $\text{CH}_3\text{COOC}_6\text{H}_4\text{COOC}_6\text{H}_5$ . (Phenyl ester of 2-acetoxy-1-benzoic acid). 559P.
- 552-592-951-1012-1022.  
Phthalic acid, bis(2-methoxyethyl) ester;  $\text{C}_6\text{H}_4(\text{COOCH}_2\text{CH}_2\text{OCH}_3)_2$ . ( $\beta$ -Methoxy ethyl phthalate).  
NT *Bombyx mori* larvae. 559.
- 552-592-951-1014.  
Phthalic acid, bis(2-ethoxyethyl) ester;  $\text{C}_6\text{H}_4(\text{COOCH}_2\text{CH}_2\text{OC}_2\text{H}_5)_2$ . ( $\beta$ -Ethoxy ethyl phthalate).  
NT *Bombyx mori* larvae. 559.
- 552-592-1012-1022-1286.  
Carbonic acid, bis(2-methoxyethyl) ester;  $\text{OC}(\text{OCH}_2\text{CH}_2\text{OCH}_3)_2$ . ( $\beta$ -Methoxy ethyl carbonate).  
NT *Bombyx mori* larvae. 559.
- 552-621-1045.  
*p*-Dioxane, 2, 3-diol-, esters, CU;  $\text{RCOO}(\text{C}_4\text{H}_8\text{O}_2)_2\text{OOCOR}'$ . (Esters of 1, 4-dioxane-2, 3-diol). 1299P.
- 552-625-951-1004-1033.  
Resorcinol, bis(2-furanacrylate);  $[(\text{C}_4\text{H}_5\text{O})\text{CH}::\text{CHCOO}]_2\text{C}_6\text{H}_4$ . (Resorcinol difurylacrylate). 552.
- 552-625-951-1022.  
Pyrocatechol di(2-furoate);  $[(\text{C}_4\text{H}_5\text{O})\text{COO}]_2\text{C}_6\text{H}_4$ . (Catechol difuroate). 552.
- 552-625-951-1022.  
Hydroquinone di(2-furoate);  $[(\text{C}_4\text{H}_5\text{O})\text{COO}]_2\text{C}_6\text{H}_4$ . (Hydroquinone difuroate). 552.
- 552-625-951-1022.  
Resorcinol di(2-furoate);  $[(\text{C}_4\text{H}_5\text{O})\text{COO}]_2\text{C}_6\text{H}_4$ . (Resorcinol difuroate). 552.
- 552-625-1003-1011-1021.  
Oxalic acid, propyl tetrahydrofurfuryl ester;  $(\text{C}_4\text{H}_7\text{O})\text{CH}_2\text{OCCCCOC}_6\text{H}_7$ . (Tetrahydrofurfurylpropyl oxalate). 552.
- 552-625-1011-1022.  
Oxalic acid, bis(tetrahydrofurfuryl) ester;  $[(\text{C}_4\text{H}_7\text{O})\text{CH}_2\text{OOC}]_2$ . (Tetrahydrofurfuryl oxalate). 552.
- 552-670-994-1004-1021.  
Cyanamide, bis(carbocetoxy-2-ethyl)-;  $[\text{C}_6\text{H}_5\text{OOCCH}_2\text{CH}_2]_2\text{NCN}$ . ( $\beta,\beta'$ -Dicarbocetoxy diethyl cyanamide). 669P.
- 552-670-1002-1012-1021.  
Cyanamide, bis(carbobutoxy-2-ethyl)-;  $[\text{C}_6\text{H}_5\text{OOCCH}_2\text{CH}_2]_2\text{NCN}$ . ( $\beta,\beta'$ -Dicarbobutoxy diethyl cyanamide). 669P.
- 552-670-1004-1023.  
Cyanamide, bis(carbomethoxy-2-ethyl)-;  $[\text{CH}_3\text{OOCCH}_2\text{CH}_2]_2\text{NCN}$ . ( $\beta,\beta'$ -Dicarbomethoxy diethyl cyanamide). 669P.
- 552-672-952-1011.  
Oxalic acid, bis(*p*-aminophenyl) ester;  $(-\text{COOC}_6\text{H}_4\text{NH}_2)_2$ . (*p*-Amino phenol oxalate).  
NT silkworm. 559.
- 552-692-952-1011-1021.  
Oxalic acid, bis(*p*-dimethylaminophenyl) ester;  $[-\text{COOC}_6\text{H}_4\text{N}(\text{CH}_3)_2]_2$ . (*p*-Dimethylamine phenyl oxalate).  
T oodling moth; ST silkworm. 561.
- 552-730-740-951-1024-1291.  
Cocaine hydrochloride;  $\text{C}_{17}\text{H}_{21}\text{NO}_4\cdot\text{HCl}$ .  
*T Aphis rumicis*. 1152.
- 552-851-1004-1033-1045.  
Acids, dicarboxylic, aliphatic (cycloaliphatic and aromatic) diallyl and bis(2-chloroallyl) ester. (Dibasic acid, diallyl esters).  
Fly spray. 112, 1127P.
- 552-852-924-1004-1023-1030.  
1, 2-Naphthalenedicarboxylic acid, bis(2-chloroallyl) ester;  $\text{C}_{10}\text{H}_6(\text{COOCH}_2\text{CHCl})_2$ . (1, 2-Naphthalenedicarboxylic acid, di-(2-chloroallyl) ester).  
Fly spray. 112, 216P.
- 552-852-951-1004-1022-1030.  
Phthalic acid, bis(2-chloroallyl) ester;  $\text{C}_6\text{H}_4(\text{COOCH}_2\text{CHCl})_2$ . (Phthalic acid, di-(2-chloroallyl) ester).  
Fly spray. 112, 216P.
- 552-852-991-1004-1033.  
Sebacic acid, bis(2-chloroallyl) ester;  $(\text{CH}_2)_8(\text{COOCH}_2\text{CHCl})_2$ . (Sebacic acid, di-(2-chloroallyl) ester).  
Fly spray. 112, 216P.
- 552-852-997-1004-1033.  
Adipic acid, bis(2-chloroallyl) ester;  $(\text{CH}_2)_6(\text{COOCH}_2\text{CHCl})_2$ . (Adipic acid, di-(2-chloroallyl) ester).  
Fly spray. 112, 216P.
- 552-852-1001-1004-1033.  
Maleic acid, bis(2-chloroallyl) ester;  $(\text{COOCH}_2\text{CHCl})_2$ . (Maleic acid, di-(2-chloroallyl) ester).  
Fly spray. 112, 216P.
- 552-852-1011-1012.  
1, 3-Propanediol bis(chloroacetate);  $(\text{CH}_2)_3(\text{OOC}_2\text{H}_4\text{Cl})_2$ . (Trimethylene glycol dimonochloroacetate; 1, 3-propanediol dimonochloroacetate).  
T *Dermestes vulpinus* larvae. 1085P.
- 552-852-1012.  
Glycol bis(chloroacetate);  $(\text{CH}_2)_2(\text{OOC}_2\text{H}_4\text{Cl})_2$ . (Ethylene glycol dimonochloroacetate).  
T *Musca domestica* larvae and T adults as fumigant. 1085P.
- 552-924-1003-1012-1023.  
Bicyclo[2,2,2]-7-octene-2, 3-dicarboxylic acid, 4-isopropyl-1-methyl-, diethyl ester;  $\text{C}_8\text{H}_7(\text{C}_3\text{H}_7)(\text{CH}_2)_2(\text{COOC}_2\text{H}_5)_2$ . (4-Cyclohexene-1, 2-dicarboxylic acid, 3, 6-endoethylene-3-isopropyl-6-methyl-, diethyl ester; diethyl ester of 3-isopropyl 6-methyl 3, 6-endoethylene delta<sup>4</sup>-tetrahydrophthalic acid; diethyl petrex).  
Fly spray. 112, 948P.
- 552-924-1003-1023-1027.  
Bicyclo[2,2,2]-7-octene-2, 3-dicarboxylic acid, 4-isopropyl-1-methyl-, dialkyl (and monoalkyl) esters;  $\text{C}_8\text{H}_7(\text{C}_3\text{H}_7)(\text{CH}_2)_2(\text{COOR})_2$ . (4-Cyclohexene-1, 2-dicarboxylic acid, 3, 6-endoethylene-3-isopropyl-6-methyl-, alkyl esters; alkyl ester of a terpene dicarboxylic acid).  
Fly spray. 112, 948P.

- 552-951-962.  
Phthalic acid, dicyclohexyl ester;  $C_6H_4(COOC_6H_{11})_2$ . (Cyclohexyl phthalate).  
NT *Bombyx mori* larvae. 559.
- 552-951-989-1022.  
Phthalic acid, didodecyl ester;  $C_6H_4(COOC_{12}H_{25})_2$ . (Phthalic acid, di-*n*-dodecyl ester; *n*-dodecyl phthalate).  
Fly spray. 107P, 112.
- 552-951-1001-1030.  
Malonic acid, benzylidene-, bis(2-ethylhexyl) ester;  $C_6H_5CH:C(OOCH_2CH(C_6H_5)C_6H_7)_2$ . Bensal di-2-ethylhexylmalonate. 1194P.
- 552-951-1000-1022.  
Phthalic acid, diamyl ester;  $C_6H_4(COOC_5H_{11})_2$ . (*n*-Amyl phthalate).  
NT *Bombyx mori* larvae. 559.
- 552-951-1000-1022.  
Phthalic acid, diisooamyl ester;  $C_6H_4(COOC_5H_9CH(CH_3)_2)_2$ . (Iso-amyl phthalate).  
ST codling moths. 915.
- 552-951-1002-1011-1030.  
Malonic acid, benzylidene-, dibutyl ester;  $C_6H_5CH:C(OOCC_4H_9)_2$ . (Bensal dibutylmalonate). 1194P.
- 552-951-1002-1022.  
Phthalic acid, dibutyl ester;  $C_6H_4(COOC_4H_9)_2$ . (Phthalate, dibutyl-).  
Repellent to houseflies. 993P, 1276.
- 552-951-1003-1011-1021.  
Acetylsalicylic acid, propyl ester;  $CH_3COOC_6H_4COOC_6H_7$ . (Propyl ester of 2-acetoxy-1-benzoic acid). 359P.
- 552-951-1004-1022-1030.  
Phthalic acid, diallyl ester;  $C_6H_4(COOCH_2CH=CH_2)_2$ .  
MT as fly spray. 112, 216P.
- 552-951-1012.  
Hydroquinone diacetate;  $C_6H_4(OOCCH_3)_2$ . (Quinol diacetate; *p*-phenylene diacetone; diacetylhydroquinone).  
T screwworms at 0.10-0.17%. 156.
- 552-951-1012-1022.  
Phthalic acid, diethyl ester;  $C_6H_4(COOC_2H_5)_2$ . (Ethyl phthalate).  
T as mothproofing agent; repellent to houseflies and other insects; NT *Tineola biselliella* and *Attogenus piceus* (739). 739, 993P, 1175, 1176, 1241P, 1242P.
- 552-951-1021-1286.  
Carbonic acid, diphenyl ester;  $(C_6H_5O)_2CO$ . (Phenyl carbonate; diphenyl carbonate).  
NT corn borer and as mothproofing agent. 239, 1120.
- 552-951-1022-1027.  
Phthalic acid, dialkyl ester, CU. (Dialkyl phthalates).  
T flies and other insects. 993P.
- 552-953-1011-1022-1030.  
Malonic acid, benzylidene-, dibenzyl ester;  $C_6H_5CH:C(COOCH_2C_6H_5)_2$ . (Bensal dibenzylmalonate). 1194P.
- 552-953-1022.  
Resorcinol dibenzoate;  $C_6H_3COOC_6H_4OOC_6H_5$ .  
NT screwworms. 156.
- 552-953-1024.  
Phthalic acid, dibenzyl ester;  $(C_6H_5CH_2COO)_2$ .  
NT *Bombyx mori* larvae. 559.
- 552-957-1001-1003-1011-1021.  
Terpinol acetate butyrate;  $C_{10}H_{18}(OOCCH_3)OOCCH_2CH_3$ . (Terpin acetate-butyrate).  
Fly spray. 93P, 94P, 112.
- 552-957-1001-1004-1021.  
Terpinol butyrate propionate;  $C_{10}H_{18}(OOCCH_2CH_3)OOCCH_2CH_3$ . (Terpin butyratepropionate).  
Fly spray. 93P, 94P, 112.
- 552-957-1002-1003-1021.  
Terpinol dibutyrate;  $C_{10}H_{18}(OOCCH_2CH_3)_2$ . (Terpin dibutyrate).  
Fly spray. 93P, 112.
- 552-957-1003-1012-1021.  
Terpinol diacetate;  $C_{10}H_{18}(OOCCH_3)_2$ . (Terpin diacetate).  
Fly spray. 93P, 94P, 112.
- 552-957-1004-1011-1021.  
Terpinol acetate propionate;  $C_{10}H_{18}(OOCCH_3)OOCCH_2CH_3$ . (Terpin acetate-propionate).  
Fly spray. 93P, 94P, 112.
- 552-957-1004-1021.  
Terpinol dipropionate;  $C_{10}H_{18}(OOCCH_2CH_3)_2$ . (Terpin dipropionate).  
Fly spray. 93P, 112.
- 552-957-1004-1022.  
4-Cyclohexene-1, 2-dicarboxylic acid, diallyl ester;  $C_6H_8(COOCH_2CH=CH_2)_2$ . (1, 2-Cyclohexenedicarboxylic acid, diallyl ester; diallyl ester of 4-cyclohexene-1, 2-dicarboxylic acid).  
Fly spray. 112, 216P.
- 552-991-1004-1033.  
Sebacic acid, diallyl ester;  $(CH_2)_8(COOCH_2CH=CH_2)_2$ .  
Fly spray. 112, 216P.
- 552-991-1011.  
Glycol dicaprate;  $CH_3(CH_2)_8COOC_2H_4OOC(CH_2)_8CH_3$ ? (Ethylene dicaprate).  
NT silkworms. 559.
- 552-997-1004-1033.  
Adipic acid, diallyl ester;  $(CH_2)_4(COOCH_2CH=CH_2)_2$ .  
HT houseflies. 112, 216P.
- 552-1000.  
Oxalic acid, diisooamyl ester;  $(CH_3)_2CHCH_2CH_2COOCH_2CH_2CH_2CH(CH_3)_2$ . (Diisooamyl oxalate; isooamyl oxalate; bis ( $\gamma$ -methylbutyl) ethanedioate).  
T codling moth; NT *Sitophilus oryzae*. 915, 1180.
- 552-1000-1221-1286.  
Carbonic acid, diisooamyl ester;  $CO(OC_5H_{11})_2$ . (Iso-amyl carbonate).  
NT red scale. 268.
- 552-1001-1012-1030.  
Maleic acid, diethyl ester;  $(CH_3COOC_2H_5)_2$ . (Maleate diethyl).  
T houseflies. 1276.
- 552-1002-1011.  
Oxalic acid, dibutyl ester;  $C_{10}H_{18}O_4$ . (*N*-Butyl oxalate).  
HT codling moth larvae. 915, 1291.
- 552-1002-1021-1286.  
Carbonic acid, dibutyl ester;  $CO(OCH_2CH_2CH_2CH_3)_2$ . (*n*-Butyl carbonate).  
NT red scale. 268.
- 552-1002-1021-1286.  
Carbonic acid, diisobutyl ester;  $[(CH_3)_2CHCH_2CH_3]_2CO$ . (Diisobutyl carbonate).  
T *Sitophilus oryzae*. 1180.
- 552-1003-1012.  
Malonic acid, diethyl ester;  $CH_3(COOC_2H_5)_2$ . (Ethyl malonate).  
T *Leptinotarsa decemlineata* and as mothproofing agent. 1009, 1175, 1242P.
- 552-1004-1011.  
Oxalic acid, diisopropyl ester;  $[-COOCH(CH_3)_2]_2$ . (Iso-propyl oxalate).  
ST codling moth. 915.
- 552-1004-1021-1286.  
Carbonic acid, dipropyl ester;  $(C_3H_7)_2CO$ . (Di-*n*-propyl carbonate).  
T *Sitophilus oryzae*. 1180.
- 552-1004-1033.  
Malonic acid, diallyl ester;  $CH_3(COOCH_2CH=CH_2)_2$ .  
Fly spray. 112, 216P.
- 552-1011-1022.  
Glycol diformate;  $HOOCH_2CH_2OOCH$ . (Ethylene glycol diformate).  
NT red scale. 268.
- 552-1011-1022.  
Oxalic acid, dimethyl ester;  $(COOCH_3)_2$ . (Dimethyl oxalate; dimethyl ethanedioate; methyl oxalate).  
NT rice weevil. 1180.
- 552-1012-1021.  
Methanediol diacetate;  $CH_3(OOCCH_3)_2$ ? (Methylenediacetate).  
T as mothproofing agent. 417P, 1175.
- 552-1012-1021-1286.  
Carbonic acid, diethyl ester;  $CO(OC_2H_5)_2$ . (Diethyl carbonate).  
HT rice weevil; ST red scale. 268, 1180.
- 552-1013.  
1, 1-Ethanedioic diacetate;  $CH_3CH(CH_3COO)_2$ . (Ethylidene diacetate; 1, 1-diacetoxy ethane).  
NT rice weevil. 1180.

- 552-1012.  
Oxalic acid, diethyl ester;  $(\text{COOC}_2\text{H}_5)_2$ . (Diethyl oxalate; diethylethanedioate; ethyl oxalate; oxalic ester).  
HT codling moth larvae; T *Lucilia cuprina* larvae;  
NT rice weevil. 849, 1180, 1291.
- 552-1023-1266.  
Carbonic acid, dimethyl ester;  $\text{CO}(\text{OCH}_3)_2$ . (Dimethyl carbonate).  
HT rice weevil; ST red scale. 268, 915, 1180.
- 552-1037.  
Oxalic acid, dialkyl ester;  $\text{ROOCCOOR}$ . (Aliphatic ester of oxalic acid).  
T muscarians. 906P.
- 553-593-822-955-1025.  
s-Trithiane, tris(4-benzyloxy-3-methoxyphenyl)-;  $\text{C}_{48}\text{H}_{50}\text{O}_6\text{S}_3$ . [Tri-(thiovanillin benzoate)].  
HT codling moth larvae. 487, 1291.
- 553-853-1001-1013.  
Glycerol tris(chloroacetate);  $\text{C}_3\text{H}_5(\text{OOCCH}_2\text{Cl})_3$ . (Glycerol trimonochloroacetate).  
T *Dermestes vulpinus*, cockroaches, flies, ants, and aphids. 1085P.
- 553-951-1013.  
Pyrogallol triacetate;  $\text{C}_6\text{H}_3(\text{OOCCH}_3)_3$ .  
NT screwworms. 156.
- 553-1003-1013.  
Acetin, tri-;  $\text{CH}_3\text{COOCH}(\text{CH}_2\text{OOCCH}_3)_2$ .  
ST *Lucilia cuprina* larvae. 849.
- 561-572-584-910-999-1021.  
Barbaloin;  $\text{HOCH}_2(\text{C}_6\text{H}_4\text{O})_2\text{OCH}_2(\text{CHOH})_2\text{CHO}$ . (Alain).  
NT *Tineola biselliella* and *Attagenus piceus*. 739.
- 561-581-591-951-1011-1021.  
Bourbonal;  $\text{C}_8\text{H}_9\text{OC}_6\text{H}_4(\text{OH})\text{CHO}$ . (3-Ethoxy-4-hydroxybenzaldehyde).  
T screwworms at 0.17-0.33%. 156.
- 561-581-951-1022.  
Vanillin;  $\text{CH}_3\text{O}(\text{OH})\text{C}_6\text{H}_4\text{CHO}$ ? (4-Hydroxy-3-methoxybenzaldehyde? methylprotocatechuic aldehyde). 1480P.
- 561-581-851-951-1021.  
Benzaldehyde, chlorohydroxy-, CU;  $\text{Cl}(\text{OH})\text{C}_6\text{H}_4\text{CHO}$ .  
T as mothproofing agent. 1175, 1465P.
- 561-581-852-951-1021.  
Benzaldehyde, 2, 6-dichloro-3-hydroxy-;  $\text{HO}(\text{Cl})_2\text{C}_6\text{H}_3\text{CHO}$ .  
T *Anthrenus vorax*, *Dermestes*, other insects, and as mothproofing agent. 402P, 469P, 1175, 1176.
- 561-581-853-951-1021.  
Benzaldehyde, 2, 4, 6-trichloro-3-hydroxy-;  $\text{Cl}_3(\text{OH})\text{C}_6\text{H}_2\text{CHO}$ .  
T as mothproofing agent. 402P, 415P, 469P, 1175, 1176.
- 561-581-924.  
Naphthaldehyde, hydroxy derivatives of.  
T as mothproofing agent. 469P, 1176.
- 561-581-951-1021.  
Benzaldehyde, p-hydroxy-;  $\text{HOC}_6\text{H}_4\text{CHO}$ .  
T as mothproofing agent. 404P, 870P, 1175.
- 561-581-951-1021.  
Salicylaldehyde;  $\text{HOC}_6\text{H}_4\text{CHO}$ . (o-Hydroxy methylbenzaldehyde; o-hydroxybenzaldehyde; salicylic aldehyde).  
T houseflies; ST codling moth larvae; NT *Chrysomphalus aurantii*. 268, 1002, 1276, 1285.
- 561-581-1001.  
Aldol;  $\text{CH}_3\text{CHOHCH}_2\text{CHO}$ . (8-Oxybutyraldehyde; butanolal-3; 3-butanolal; oxybutyric acid).  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 561-582-951-1021.  
 $\beta$ -Resorcylnaldehyde;  $(\text{HO})_2\text{C}_6\text{H}_3\text{CHO}$ . (2, 4-Dihydroxybenzaldehyde; 2, 4-dihydroxybenzenecarbinol).  
T screwworms at 0.33-0.67%. 156.
- 561-584-951-997-1021.  
Salicin;  $\text{HOCH}_2\text{C}_6\text{H}_4\text{OC}_6\text{H}_4\text{O}_2$ .  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 561-591-951-1011-1021.  
Benzaldehyde, o-ethoxy-;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{CHO}$ .  
T screwworms at 0.33-0.67%. 156.
- 561-591-951-1022.  
Anisaldehyde;  $\text{CH}_3\text{OC}_6\text{H}_4\text{CHO}$ . (Anisic aldehyde; p-hydroxymethylbenzaldehyde; p-methoxybenzaldehyde; p-anisaldehyde; aubepine).  
T houseflies, mosquito, and codling moth larvae;  
NT wireworms and red scale. 156, 157, 268, 846, 915, 1276.
- 561-592-951-1023.  
Benzaldehyde, 2, 4-dimethoxy-;  $(\text{CH}_3\text{O})_2\text{C}_6\text{H}_3\text{CHO}$ . (Resorcylnaldehyde dimethyl ether; 2, 4-dimethoxybenzenecarbonal).  
NT *Bombyx mori* larvae. 561.
- 561-592-951-1023.  
Veratraldehyde;  $(\text{CH}_3\text{O})_2\text{C}_6\text{H}_3\text{CHO}$ . (3, 4-Dimethoxybenzaldehyde; protocatechualdehyde dimethyl ether; 3, 4-dimethoxybenzenecarbonal).  
T screwworms at 0.33-0.67%; NT silkworm larvae. 156, 561.
- 561-625-1021.  
2-Furaldehyde;  $\text{C}_6\text{H}_5\text{OCHO}$ . (Furfural; 2-furan-carbonal; fural; furalaldehyde; furole; furfurole).  
HT codling moth larvae; MT *Aphis rumicis* and *Hippodamia convergens*; attractant for oriental peach moth. 508, 1110, 1152, 1285.
- 561-626-950-1021.  
Piperonal;  $\text{CH}_3(\text{O})_2\text{C}_6\text{H}_4\text{CHO}$ . (3, 4-Methylene-dioxybenzaldehyde; protocatechualdehyde methylene ether; heliotropin).  
Attractant for oriental peach moth; NT codling moth larvae and as synergists with pyrethrum against houseflies. 508, 617, 1285.
- 561-691-951-1023.  
Benzaldehyde, p-dimethylamino;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{CHO}$ .  
NT *Malacosoma americana* and silkworm. 119, 561.
- 561-851-951-1021.  
Benzaldehyde, o-chloro-;  $\text{ClC}_6\text{H}_4\text{CHO}$ .  
T as mothproofing agent; NT codling moth larvae. 415P, 684P, 1175, 1285.
- 561-851-951-1021.  
Benzaldehyde, p-chloro-;  $\text{ClC}_6\text{H}_4\text{CHO}$ .  
T *Anthrenus vorax*, *Dermestes*, and as mothproofing agent. 402P, 415P, 418P, 469P, 684P, 1175, 1176.
- 561-851-1011.  
Acetaldehyde, chloro-;  $\text{CH}_3\text{ClCHO}$ . 1337P.
- 561-851-1001-1030.  
Crotonaldehyde, chloro-, CU;  $\text{C}_6\text{H}_5\text{OCl}$ . (Chloro-crotonal). 1337P.
- 561-852-951-1021.  
Benzaldehyde, 2, 6-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{CHO}$ .  
T as mothproofing agent. 415P, 1175.
- 561-852-1001.  
Butyraldehyde, dichloro-, CU;  $\text{C}_4\text{H}_5\text{Cl}_2\text{HO}$ . (Dichlorobutanal). 1337P.
- 561-853-1011.  
Chloral;  $\text{OClCHO}$ .  
T as mothproofing agent; NT *Chrysomphalus uvarovii*. 268, 402P, 469P, 849, 1176.
- 561-857-951-1021.  
Benzaldehyde, chloro-, CU.  
T as mothproofing agent. 408P, 409P, 1175, 1465P.
- 561-863-951-1021.  
Benzaldehydes, trifluoromethyl-, CU;  $\text{CF}_3\text{C}_6\text{H}_4\text{CHO}$ . 1244P.
- 561-924-1021.  
Naphthaldehydes, CU;  $\text{C}_{10}\text{H}_7\text{CHO}$ .  
T as mothproofing agent. 408P, 409P, 1175.
- 561-951-993-1030.  
Cinnamaldehyde,  $\alpha$ -amyl-;  $\text{C}_8\text{H}_9\text{CH}:\text{C}(\text{O}_2\text{H}_{11})\text{CHO}$ . (3-n-Amyl, 3-phenyl propenal?  $\alpha$ -n-amyldinnamaldehyde).  
NT red scale. 268.
- 561-951-1003-1021.  
Cumaldehyde;  $\text{C}_8\text{H}_7\text{C}_6\text{H}_4\text{CHO}$ . (Cuminaldehyde; p-isopropylbenzaldehyde).  
T wireworms; NT *Culex pipiens*; not effective as attractant for oriental peach moth. 508, 846, 1012.
- 561-951-1003-1030.  
Cinnamaldehyde;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCHO}$ . (3-Phenylpropenal;  $\beta$ -phenylacrolein; cinnamic aldehyde).  
NT codling moth larvae. 1285.
- 561-951-1021.  
Benzaldehyde;  $\text{C}_6\text{H}_5\text{CHO}$ .  
T housefly, *Leptinotarsa decemlineata*, and *Aphis rumicis*; NT screwworms, *Chrysomphalus aurantii*, and as attractant for oriental peach moth. 156, 268,



- 402P, 415P, 469P, 508, 684P, 1002, 1009, 1152, 1175, 1176, 1210P, 1241P, 1242P, 1465P.
- 561-975. Aldehydes, aromatic, CU.  
T as mothproofing agent. 408P, 1175.
- 561-991-1030. Citronellal;  $\text{CH}_3\text{C}(\text{CH}_3)(\text{CH}_2)_3\text{CH}(\text{CH}_2)_2\text{CHO}$ .  
T *Lucilia cuprina* larvae. 849.
- 561-991-1033. Citral;  $(\text{CH}_3)_2\text{C}=\text{CHCH}_2\text{CH}_2\text{C}(\text{CH}_3)=\text{CHCHO}$ . (Geraniol).  
T *Leptinotarsa decemlineata*, *Aphis rumicis*, and *Lucilia cuprina* larvae; attractant for oriental peach moth. 508, 849, 1009.
- 561-995. Enanthaldehyde;  $\text{C}_8\text{H}_{16}\text{O}$ . (Heptaldehyde; heptanal; heptyl aldehyde; enanthole).  
HT rice weevil. 206P, 1180.
- 561-997. Butyraldehyde, 2-ethyl-;  $\text{CH}_3\text{CH}_2\text{CH}(\text{C}_2\text{H}_5)\text{CHO}$ . (2-Ethylbutanal).  
NT codling moth larvae. 1285.
- 561-997-1030. 2-Pentenal, 2-methyl-;  $\text{CH}_3\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)\text{CHO}$ . ( $\alpha$ -Methyl- $\beta$ -ethylacrolein).  
HT rice weevil. 1180.
- 561-999. Valeraldehyde;  $\text{CH}_3(\text{CH}_2)_4\text{CHO}$ . (n-Valeraldehyde; pentanal; n-valeric aldehyde; n-amyl aldehyde).  
NT red scale. 268.
- 561-999. Butanal, 3-methyl-;  $(\text{CH}_3)_2\text{CHCH}_2\text{CHO}$ . (Isovaleraldehyde; isoamyl aldehyde).  
NT red scale and *Hippodamia convergens*. 1110, 1180.
- 561-1001. Butyraldehyde;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$ . (Butanal; butyric aldehyde).  
T as mothproofing agent; NT *Chrysomphalus aurantii* and wireworms. 268, 684P, 846, 1175, 1180.
- 561-1001. Isobutyraldehyde;  $(\text{CH}_3)_2\text{CHCHO}$ . (2-Methylpropanal; isobutyl aldehyde).  
NT *Chrysomphalus aurantii* and wireworms. 268, 846, 1180.
- 561-1001-1030. Crotonaldehyde;  $\text{CH}_3\text{CH}=\text{CHCHO}$ . (2-Butenal).  
T rice weevil, *Chrysomphalus aurantii*, and *Lucilia cuprina* larvae; NT *Tineola biselliella* and *Attagenus piceus*. 268, 602P, 739, 849, 1176, 1180, 1285.
- 561-1003. Propionaldehyde;  $\text{CH}_3\text{CH}_2\text{CHO}$ ? (n-Propylaldehyde).  
NT *Chrysomphalus aurantii*. 268.
- 561-1003-1030. Acrolein;  $\text{CH}_2=\text{CHCHO}$ . (Acrylaldehyde; propenal; acrylic aldehyde).  
HT rice weevil; T red scale. 268, 1180.
- 561-1011. Acetaldehyde;  $\text{CH}_3\text{CHO}$ . (Metaldehyde; Meta).  
T as mothproofing agent; NT red scale. 268, 402P, 846, 849, 1175.
- 561-1011. Metaldehyde;  $(\text{C}_2\text{H}_4\text{O})_n$ . (Polymer of acetaldehyde).  
NT clothes moths. 739, 1176.
- 561-1021. Formaldehyde;  $\text{HCHO}$ .  
T houseflies and *Lucilia cuprina* larvae; T as mothproofing agent 94P, 398P, 402P, 409P, 414P, 418P, 435P, 469P, 1457P, 1462P, 1465P; NT as mothproofing agent (42, 199, 1024, 1268, 1310); NT red scale. 42, 69P, 94P, 199, 268, 398P, 402P, 409P, 414P, 418P, 435P, 469P, 516, 832, 879P, 933, 1024, 1175, 1176, 1231, 1268, 1310, 1413, 1457P, 1462P, 1465P, 1488P.
- 561-1021. Paraformaldehyde;  $(\text{HCHO})_n$ .  
T as mothproofing agent. 182P, 184P, 1150, 1175, 1176, 1298P.
- Trioxymethylene and related compounds will be found under 622, since they are ring structures.
- 571-581-591-730-740-951-1003-1021. Atropine;  $\text{C}_{17}\text{H}_{23}\text{NO}_3$ .  
T clothes moths. 517P, 1175.
- 571-581-591-841-951-1002-1011. Valerophenone, 5-bromo-4-tert-butyl-2-hydroxy-ethoxy-;  $(\text{CH}_3)_2\text{CC}_6\text{H}_4(\text{Br})(\text{OOC}_6\text{H}_5)\text{OC}_2\text{H}_5\text{OH}$ . (Ethanol, 2-(4-bromo-5-tert-butyl-2-butyrylphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 3-tertiary-butyl-4-bromo-6-butyryl phenol).  
Fly spray. 112, 230P.
- 571-581-591-851-951-1001-1012. Acetophenone, 5-tert-butyl-2-chloro-2-(hydroxyethoxy)-;  $(\text{CH}_3)_2\text{CC}_6\text{H}_4(\text{Cl})(\text{OCH}_2\text{CH}_2\text{OH})\text{OC}_6\text{H}_5\text{OH}$ . (Ethanol, 2-(2-acetyl-4-tert-butyl-6-chlorophenoxy)-;  $\beta$ -hydroxy-ethyl ether of 2-chloro-4-tertiary-butyl-6-acetyl phenol).  
Fly spray. 112, 230P.
- 571-581-591-951-993-1003-1011. Propiophenone, 5-hydroxyethoxy-2-octyl-;  $\text{C}_8\text{H}_{17}\text{C}_6\text{H}_4(\text{COC}_2\text{H}_5)\text{OC}_2\text{H}_5\text{OH}$ . (Ethanol, 2-(4-tert-octyl-3-propionylphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 3-propionyl-4-tertiary-octyl phenol).  
Fly spray. 112, 230P.
- 571-581-591-951-993-1004. Propiophenone, 5-hydroxypropoxy-2-octyl-;  $\text{C}_8\text{H}_{17}\text{C}_6\text{H}_4(\text{COC}_2\text{H}_5)\text{OC}_2\text{H}_5\text{OH}$ . (Propanol, 3-(3-propionyl-4-tert-octylphenoxy)-; hydroxy-propyl ether of 3-propionyl-4-tertiary-octyl phenol).  
Fly spray. 112, 230P.
- 571-581-591-951-999-1003-1011-1021. Propiophenone, 2-tert-amyl-4-hydroxyethoxy-5-methyl-;  $\text{C}_8\text{H}_5\text{COC}_6\text{H}_4(\text{CH}_3)(\text{OCH}_2\text{CH}_2\text{OH})\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . (Ethanol, 2-(5-tert-amyl-2-methyl-4-propionylphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 2-methyl-4-propionyl-5-tertiary-amyl phenol).  
Fly spray. 112, 230P.
- 571-581-591-951-1001-1012. Acetophenone, 3-tert-amyl-4-hydroxyethoxy-;  $\text{CH}_3\text{COC}_6\text{H}_4(\text{OCH}_2\text{CH}_2\text{OH})\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . (Ethanol, 2-(4-acetyl-2-tert-amylphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 2-tertiary-amyl-4-acetyl phenol).  
Fly spray. 112, 230P.
- 571-581-591-952-1001-1003-1011-1021. Propiophenone, 3-tert-amyl-5-benzyl-2-hydroxyethoxy-;  $\text{C}_8\text{H}_5\text{COC}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_5)(\text{OCH}_2\text{CH}_2\text{OH})\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . (Ethanol, 2-(2-tert-amyl-4-benzyl-6-propionylphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 2-tertiary-amyl-4-benzyl-6-propionyl phenol).  
Fly spray. 112, 230P.
- 571-581-592-620-625-950-1003-1022-1030. Sumatrol;  $\text{C}_{22}\text{H}_{21}\text{O}_7$ .  
T insects but less than rotenone. 618.
- 571-581-592-620-625-950-1003-1022-1030. Rotenolone;  $\text{C}_{22}\text{H}_{25}\text{O}_7$ .  
T goldfish. 618.
- 571-581-592-620-950-999-1022-1030. Rotenonic acid;  $\text{C}_{22}\text{H}_{25}\text{O}_8$ .  
Associated with rotenone. 618.
- 571-581-592-620-950-1022. Apotoxicanol;  $\text{C}_{18}\text{H}_{15}\text{O}_8$ .  
Associated with rotenone. 618.
- 571-581-592-620-950-1024. Tephrocin;  $\text{C}_{21}\text{H}_{15}\text{O}_8$ .  
T *Bombus mori* and many insects but less than rotenone; T as fish poison. 543, 618, 629, 1276A.
- 571-581-592-951-1001-1012-1021. Acetophenone, 5-tert-butyl-2-hydroxyethoxy-3-methoxy-;  $\text{CH}_3\text{COC}_6\text{H}_4(\text{OCH}_3)(\text{OC}_2\text{H}_5\text{OH})\text{C}(\text{CH}_3)_2$ . (Ethanol, 2-(2-acetyl-4-tert-butyl-6-methoxyphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 2-methoxy-4-tertiary-butyl-6-acetyl phenol).  
Fly spray. 112, 230P.
- 571-581-625-1011. Furoin;  $(\text{C}_8\text{H}_8\text{O})\text{CHOHCOOC}_2\text{H}_5\text{O}$ .  
NT *Bombus mori* larvae. 559.
- 571-581-625-950-1011. Benzoin, 3, 4, 3', 4'-di-(methylenedioxy)-;  $(\text{CH}_2\text{O})_2\text{C}_6\text{H}_4\text{CHOHCOOC}_2\text{H}_5$ ;  $(\text{CH}_2\text{O})_2$ . (Piperonyl).  
NT European corn borer. 1122.
- 571-581-730-950. 9-Acridone, 4-hydroxy-;  $(\text{C}_{15}\text{H}_9\text{O})\text{OH}$ .  
T screwworms at 0.67%. 944.
- 571-581-730-950-1011. Ketone, 2-hydroxyquinolyl methyl-, CU;  $\text{HO}(\text{C}_6\text{H}_4\text{N})\text{COCH}_3$ ? (Aceto 2 hydroxyquinoline).  
NT *Pieris rapae*. 635.
- 571-581-730-950-1011. Ketone, 8-hydroxyquinolyl methyl-, CU?  $\text{HO}(\text{C}_6\text{H}_4\text{N})\text{COCH}_3$ ? (Aceto 8 hydroxyquinoline).  
NT *Pieris rapae*. 635.



- 571-581-730-950-1011.  
Ketone, 8-hydroxyisoquinolyl methyl-, CU.  
NT *Pieris rapae*. 635.
- 571-581-740-950.  
Iustin; O:(C<sub>6</sub>H<sub>5</sub>N)OH. (2, 3-Indoledione).  
NT roaches. 587.
- 571-581-851-968.  
Cyclopentanone, 1-chloro-2-hydroxy-; O:(C<sub>6</sub>H<sub>5</sub>)-(Cl)OH. 380P.
- 571-581-924-1011.  
2-Acetonaphthone, 1-hydroxy-; CH<sub>3</sub>COC<sub>10</sub>H<sub>7</sub>OH. (3-Aceto-1-naphthol; 1-hydroxy-2-naphthyl methyl ketone; 2-acetyl-1-naphthol).  
NT *Culex quinquefasciatus* and NT screwworms at 0.67%. 156, 157, 1368P.
- 571-581-951-1003.  
Propiophenone, p-hydroxy-; C<sub>6</sub>H<sub>5</sub>COC<sub>2</sub>H<sub>4</sub>OH.  
NT European corn borer. 1122.
- 571-581-951-1011.  
Acetophenone, p-hydroxy-; CH<sub>3</sub>COC<sub>6</sub>H<sub>4</sub>OH.  
MT codling moth larvae. 1285.
- 571-581-952.  
Benzophenone, p-hydroxy-; C<sub>6</sub>H<sub>5</sub>COC<sub>6</sub>H<sub>4</sub>OH.  
HT *Carpocapsa pomonella* larvae. 156, 487, 559, 1291.
- 571-581-952.  
Benzophenones, hydroxy-, CU. (Ketones, hydroxy-diphenyl).  
T as mothproofing agent. 413P, 1175.
- 571-581-952-1003-1030.  
Chalcone, 2-hydroxy-; OHC<sub>6</sub>H<sub>4</sub>CH:CHCOC<sub>6</sub>H<sub>5</sub>. (o-Hydroxybenzalacetophenone).  
NT screwworms. 156.
- 571-581-952-1011.  
Benzoin; C<sub>6</sub>H<sub>5</sub>CH(OH)COC<sub>6</sub>H<sub>5</sub>. (Oxyphenylbenzylketone; phenylbenzoylcarbinol).  
HT codling moth larvae; T as mothproofing agent; NT screwworms. 156, 333P, 1176, 1291.
- 571-582-620-1021.  
1, 4-Pyrone, 5-hydroxy-2-(hydroxymethyl)-; O:- (C<sub>6</sub>H<sub>5</sub>O)(CH<sub>2</sub>OH)OH. (Kojic acid).  
HT codling moth larvae. 1291.
- 571-582-625-950-952.  
Phenolphthalein; O:(C<sub>6</sub>H<sub>5</sub>O)(C<sub>6</sub>H<sub>4</sub>OH)<sub>3</sub>.  
ST screwworms and ST as mothproofing agent. 156, 974, 1176.
- 571-582-951-1021.  
Acetophenone, 2, 4-dihydroxy-; CH<sub>3</sub>COC<sub>6</sub>H<sub>3</sub>(OH)<sub>2</sub>. (Resacetophenone).  
T screwworms at 0.33-0.67%. 156.
- 571-582-953-1021.  
Auric; O:(C<sub>6</sub>H<sub>5</sub>):C(C<sub>6</sub>H<sub>4</sub>OH)<sub>3</sub>. (Rosolic acid; pararosolic acid).  
ST mosquito larvae. 487.
- 571-591-620-952-1022.  
Coumarin, 4-methyl-7-(benzyloxy)-; O:(C<sub>6</sub>H<sub>5</sub>O)-(CH<sub>3</sub>)OCHC<sub>6</sub>H<sub>3</sub>. (Coumarin, 4-methyl-7-phenylmethoxy-).  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.
- 571-591-951-1001-1021-1030.  
3-Buten-2-one, 4-p-anisyl-; CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>CH:CHCO-CH<sub>3</sub>. (Anisalacetone).  
HT mosquito and screwworm larvae. 156, 157.
- 571-591-951-1003-1011-1030.  
Acetophenone, 2-allyloxy-; CH<sub>3</sub>COC<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH:CH<sub>2</sub>. (Propene, 3-(o-acetylphenoxy)-; allyl ether of 2-acetophenol).  
Fly spray. 112, 209P.
- 571-591-951-1011-1021.  
Acetophenone, p-methoxy-; CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>COCH<sub>3</sub>. (p-Anisyl methyl ketone; p-acetylanisole).  
HT screwworms at 0.05-0.08%. 156.
- 571-591-952-1003-1021-1030.  
Chalcone, 4-methoxy-; CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>CH:CHCOC<sub>6</sub>H<sub>5</sub>. (Anisalacetophenone).  
NT corn borer. 1120.
- 571-591-952-1011-1021.  
Acetophenone, o-(benzyloxy)-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>CO-CH<sub>3</sub>. (Ether, o-acetylphenyl benzyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 571-591-953-1011-1021.  
Acetophenone, p-(benzyloxy)-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>CO-CH<sub>3</sub>. (Ether, p-acetylphenyl benzyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 571-591-953-1022.  
Benzophenone, p-methoxy-; C<sub>6</sub>H<sub>5</sub>COC<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>.  
ST screwworms at 0.67%. 156.
- 571-591-953-1022.  
Benzophenone, 2-(benzyloxy)-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>-COC<sub>6</sub>H<sub>5</sub>. (Ether, benzyl o-benzoylphenyl).  
Fly spray. 112, 690P.
- 571-591-953-1022.  
Benzophenone, 4-(benzyloxy)-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>CO-CH<sub>3</sub>. (Ether, benzyl p-benzoylphenyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 571-592-610-740-950-1011.  
Brucine; C<sub>21</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>. (Dimethoxystychnine).  
T as mothproofing agent; ST codling moth larvae. 915, 985, 1164P, 1165P, 1175, 1176, 1179.
- 571-592-610-740-950-1011-1389.  
Brucine sulphate; (C<sub>21</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>)<sub>2</sub>H<sub>2</sub>SO<sub>4</sub>.  
T *Aphis rumicis* and as mothproofing agent. 1183, 1164P, 1165P, 1175, 1179.
- For other Brucine salt see:  
541-571-592-610-740-950-983-1011-1030.
- 571-592-620-625-851-950-1003-1022.  
Rotenone hydrochloride; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>Cl. 544.
- 571-592-620-625-950-1003-1022.  
Rotenone, dihydro-; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>.  
M.l.d. *Bombyx mori* 0.01 mg./gm.; more toxic than rotenone as fish poison. 542, 618, 629, 1276A.
- 571-592-620-625-950-1003-1022.  
Isorotenone; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>.  
T goldfish and mosquito larvae; associated with rotenone. 486A, 542, 618.
- 571-592-620-625-950-1003-1022-1030.  
Rotenone; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>.  
T many species of insects; widely used insecticide. 486A, 545.
- 571-592-620-625-950-1022.  
Elliptone; C<sub>20</sub>H<sub>15</sub>O<sub>5</sub>.  
Associated with rotenone. 618.
- 571-592-620-625-950-1022.  
Malaecol; C<sub>20</sub>H<sub>15</sub>O<sub>5</sub>.  
Associated with rotenone. 618.
- 571-592-620-950-1024.  
Rotenone, β-dihydro-; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>. (Dihydrodeguelin).  
T mosquito larvae; associated with rotenone. 486A, 618.
- 571-592-620-950-1024.  
Deguelin; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>.  
M.l.d. *Bombyx mori* larvae 0.01-0.012 mg./gm. 486A, 543, 629, 1276A.
- 571-592-620-950-1024.  
α-Toxicarol; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>.  
T insects but less than rotenone. 543, 618, 629.
- 571-592-620-950-1024.  
β-Toxicarol; C<sub>23</sub>H<sub>33</sub>O<sub>6</sub>.  
T insects but less than rotenone. 543, 618, 629.
- 571-592-620-730-950-951-1024-1389.  
Berberine bisulphate; C<sub>20</sub>H<sub>13</sub>O<sub>8</sub>N<sub>3</sub>SO<sub>4</sub>?  
ST codling moth larvae. 915.
- 571-592-952-999-1022-1033.  
3-Pentadienone, 1, 5-di-(p-methoxyphenyl)-; (CH<sub>3</sub>-OC<sub>6</sub>H<sub>4</sub>CH:CH-)<sub>2</sub>C=O. (Dianisalacetone).  
NT screwworms. 156.
- 571-592-958-952-1024.  
Cyclopentanone, 1, 4-di-(p-methoxybenzylidene)-; O:(C<sub>6</sub>H<sub>5</sub>)(CHC<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>)<sub>2</sub>. (Dianisalcyclopentanone).  
ST *Cochliomyia americana* C. and P. larvae; NT corn borer. 944, 1120.
- 571-593-620-625-1003-1011-1022-1030.  
Rotenone, acetyl-; C<sub>25</sub>H<sub>35</sub>O<sub>7</sub>.  
T goldfish at less than 0.002 mg. per liter. 544.
- 571-593-625-626-730-950-1024-1389.  
Narootine sulfate; (C<sub>25</sub>H<sub>35</sub>O<sub>7</sub>N)<sub>2</sub>H<sub>2</sub>SO<sub>4</sub>.  
T *Aphis rumicis*. 1152.
- 571-610-740-950-1011.  
Strychnine; C<sub>21</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>.  
T as mothproofing agent; ST codling moth. 915, 1133P, 1179.
- 571-610-740-950-1011-1254.  
Strychnine arsenite.  
NT tobacco worm moths. 553.
- 571-610-740-950-1011-1389.  
Strychnine sulfate; (C<sub>21</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>)<sub>2</sub>H<sub>2</sub>SO<sub>4</sub>.  
T *Aphis rumicis* and screwworms; NT Japanese beetle. 156, 1008, 1152.

- 571-620-825-950-1021.  
Thianaphthene, 2-keto-4-methyl-5, 6-(2, 3-pyranil)-;  $(C_6H_5O)(C_6H_5S)(O)CH_3$  (4-Methyl-2-keto-pyranthionaphthene).  
HT codling moth larvae; NT mosquito larvae. 487, 1291.
- 571-620-841-950.  
Xanthone, 3-bromo-;  $O:(C_{15}H_7O)Br$ . 540AP.
- 571-620-842-950.  
Xanthone, 2,7-dibromo-;  $O:(C_{15}H_5O)Br_2$ . 540AP.
- 571-620-950.  
Coumarin;  $O:(C_9H_6O)$ . (1, 2-Benzopyrone; o-coumaric acid lactone; coumarinic lactone).  
MT tobacco flea beetle, codling moth, and *Bombyx mori* larvae; NT as mothproofing agent. 239, 487, 559, 1012, 1175, 1291, 1357P.
- 571-620-950.  
Xanthone;  $O:(C_{15}H_5O)$ . (9-Xanthone; diphenylene ketone oxide).  
T roaches, southern army worm, and mosquito larvae; MT *Lucilia sericata* larvae; ST codling moth and red spider. 27, 156, 487, 587, 949, 1120, 1144, 1291, 1312, 1322, 1481.
- 571-625-742-1011-1022-1291.  
Pilocarpine hydrochloride;  $C_{11}H_{15}O_3N_2.HCl$ .  
T *Aphis rumicis*; ST codling moth. 915, 1152
- 571-625-825-950-1022-1030.  
Thianaphthene, 3-keto-4-methyl-2-(furfurylidene)-;  $C_{14}H_{10}O_4S$ . (1-Fural-4-methyl-2(1) thionaphthene).  
MT codling moth larvae; NT mosquito larvae. 487, 1291.
- 571-625-851-951-1011.  
Acetophenone,  $\alpha$ -furfurylidene-*p*-chloro-;  $ClC_6H_4COCH:CH(C_6H_5O)$ . (*p*-Chloro- $\alpha$ -furalacetophenone).  
HT codling moth larvae; MT mosquito larvae. 487, 1291.
- 571-625-950-961.  
Dibenzofuran, 7-acetyl-1, 2, 3, 4-tetrahydro-;  $C_{16}H_{12}O_2$ .  
HT mosquito larvae. 487.
- 571-625-950-1011.  
Dibenzofuran, 3-acetyl;  $(C_{15}H_7O)COCH_3$ .  
MT mosquito larvae. 487.
- 571-625-951-1009-1080.  
Acetophenone,  $\alpha$ -furfurylidene;  $C_6H_5COCH:CH(C_6H_5O)$ . (Furfural-acetophenone). 1291, 1369P.
- 571-625-951-1011-1021.  
Acetophenone,  $\alpha$ -furfurylidene, *p*-methyl-;  $CH_3C_6H_4COCH:CH(C_6H_5O)$ . ( $\alpha$ -Fural-*p*-methylacetophenone).  
MT codling moth and mosquito larvae. 487, 488, 1291.
- 571-625-968-1022-1033.  
Cyclopentanone, 2, 3-di-(furfurylidene)-;  $(C_6H_5O)(CHC_6H_5O)_2$ . (Difuralcyclopentanone).  
HT codling moth larvae. 1291.
- 571-626-950-951-1003-1021.  
Chalcone, 3, 4-methylenedioxy-4'-methyl-;  $(CH_3O)_2C_6H_3CH:CHCOOC_6H_5$ .  
NT European corn borer. 1122.
- 571-626-950-968-1022.  
Cyclopentanone, 1, 4-di-(piperonylidene)-;  $[(CH_3O)_2C_6H_3CH:]_2(C_6H_5)O$ . (Dipiperonalcyclopentanone).  
T *Cochliomyia americana* C. and P. larvae at 0.67%. 944, 1120.
- 571-632-851-952-1021.  
Propiophenone, *p*-chloro- $\alpha,\beta$ -epoxy- $\beta$ -phenyl-;  $ClC_6H_4CO(C_6H_5O)C_6H_5$ . ( $\alpha$ -(*p*-Chlorobenzoyl)- $\beta$ -phenyl ethylene oxide).  
NT as mothproofing agent. 239.
- 571-632-952-1021.  
Propiophenone,  $\alpha,\beta$ -epoxy- $\beta$ -phenyl-;  $C_6H_5CO(C_6H_5O)C_6H_5$ . ( $\alpha$ -Benzoyl- $\beta$ -phenyl ethylene oxide).  
NT as mothproofing agent. 239.
- 571-632-952-1022.  
Propiophenone,  $\alpha,\beta$ -epoxy-*p*-methyl- $\beta$ -phenyl-;  $CH_3C_6H_4CO(C_6H_5O)C_6H_5$ . ( $\alpha$ -Phenyl- $\beta$ -(*p*-tolyl) ethylene oxide).  
NT as mothproofing agent. 239.
- 571-640-950-1176.  
Anhydro-*o*-hydroxymercuribenzoic acid;  $C_6H_4COOHg$ . (Mercury Benzoic acid). 379P.
- 571-671-851-975-1003-1027.  
Ketone, aminochalcaryl-,  $CU$ ;  $ROCH(R')CH_2Y$ .  
Where R is an aryl or chloroaryl group; R' is hydrogen or alkyl; and Y is the residue of an amine from the class consisting of primary and secondary amines. 719P.
- 571-671-952-1021.  
Benzophenone, 4-amino-;  $C_6H_5COC_6H_4NH_2$ . (*p*-Aminobenzophenone; *p*-aminophenyl phenyl ketone; *p*-benzoylaniline).  
MT codling moth larvae. 1285.
- 571-672-952-1021.  
Benzophenone, 4, 4'-diamino-;  $(NH_2C_6H_4)_2CO$ .  
NT European corn borer. 1123.
- 571-691-696-951-995-1023-1291.  
Ammonium chloride, benzyl-(2-acetyl-3-methylbutyl)-dimethyl-;  $C_6H_5OH.N(Cl)(CH_3)_2CH[CH(CH_3)_2]COCH_3$ . (Ammonium compound, benzyl 2-acetylisocamyl dimethyl chloride; benzylchloride quaternary salt of  $\beta$ -acetyl- $\beta$ -isopropylethyl dimethylamine).  
Fly spray. 112, 1411P.
- 571-691-995-1022.  
2-Butanone, 4-dimethylamino-3-isopropyl-;  $CH_3COCH[CH(CH_3)_2]CH_2N(CH_3)_2$ . ( $\beta$ -Acetyl- $\beta$ -isopropylethyl-dimethylamine).  
HT as fly spray. 112, 1411P.
- 571-691-1001-1022.  
2-Butanone, 4-dimethylamino-;  $CH_3COCH_2CH_2N(CH_3)_2$ . (Dimethylamine, *N*-(2-acetylethyl)-;  $\beta$ -acetylethyl-dimethylamine).  
T houseflies. 112, 1411P.
- 571-692-696-951-993-1025-1291.  
Ammonium chloride, benzyl-(2-acetyl-2-*N,N'*-dimethylamino-3-methylbutyl)-dimethyl-;  $C_6H_5CH_2N(Cl)(CH_3)_2CH[CH(CH_3)_2]COCH_3$ . (Ammonium compound, benzyl 2-acetyl-2-*N,N'*-dimethylaminomethylisocamyl dimethyl chloride; benzyl chloride quaternary salt of  $\beta$ -acetyl- $\beta$ -isopropyl-trimethylene-tetramethyl-diamine).  
T houseflies. 112, 1411P.
- 571-692-952-1025.  
Benzophenone, di-(dimethylamino)-;  $(CH_3)_2NC_6H_4COC_6H_4N(CH_3)_2$ . (Tetramethyl diamino benzophenone).  
NT *Bombyx mori* larvae and codling moth. 559, 561, 915.
- 571-692-993-1024.  
2-Pentanone, 3, 3-bis(dimethylaminomethyl)-5-methyl-;  $CH_3COC[CH_2N(CH_3)_2]_2CH(CH_3)_2$ . (1, 3-Propanediamine, 2-acetyl-2-isopropyl-*N,N,N',N'*-tetramethyl-;  $\beta$ -acetyl- $\beta$ -isopropyl-trimethylene-tetramethyl-diamine).  
T as fly spray. 112, 1411P.
- 571-692-999-1024.  
Acetone,  $\alpha,\alpha$ -bis(dimethylaminomethyl)-;  $CH_3COCH[CH_2N(CH_3)_2]_2$ . (1, 3-Propanediamine, 2-acetyl-*N,N,N',N'*-tetramethyl;  $\beta$ -acetyl-trimethylene-tetramethyldiamine).  
HT as fly spray. 112, 1411P.
- 571-692-1027.  
Ketone, amino-,  $CU$ ;  $RCOR_1NR_2R_3$  or  $RCOR_1(NR_2R_3)_2$ . A pest-combating agent comprising at least one aliphatic amino-ketone, wherein R, R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> represent alkyl radicals.  
Fly spray. 112, 1411P.
- 571-730-851-950.  
9-Acridone, 2-chloro-;  $O:(C_{15}H_9N)Cl$ . (2-Chloro-acridone).  
NT *Cochliomyia americana* C. and P. larvae. 944.
- 571-730-851-950.  
9-Acridone, 4-chloro-;  $O:(C_{15}H_9N)Cl$ . (4-Chloro-acridone).  
NT *Cochliomyia americana* C. and P. larvae. 944.
- 571-730-851-950-1011.  
Ketone, 8-chloroquinolyl methyl-,  $CU$ ;  $CH_3CO(C_6H_4N)Cl$ . (Aceto 8 chloroquinoline).  
NT *Pieris rapae*. 635.
- 571-730-851-951-1003.  
Propiophenone, *p*-chloro- $\beta$ -piperidyl-;  $ClC_6H_4COC_6H_4CH_2C_5H_9NH$ . ( $\alpha$ -Chlorobenzoyl- $\beta$ -piperidino ethane). 719P.
- 571-730-950.  
9-Acridone, dihydro-;  $O:(C_{15}H_9N)$ . (Acridone).  
MT codling moth at 4%; ST potato leaf hopper at 0.5%; NT screwworms. 156, 1481.

- 571-730-980-1011-1021.  
Ketone, methyl(6-methylquinolyl)-, CU;  $\text{CH}_3(\text{C}_6\text{H}_4\text{N})\text{COCH}_3$ . (Aceto 6-methyl quinoline; *N*-acetyl-6-methyl quinoline?).  
ST *Pieris rapae*. 635.
- 571-730-980-1021.  
Carbostyryl, 4-methyl-;  $\text{CH}_3(\text{C}_6\text{H}_4\text{N})\text{OH}$ . (Lepidone).  
ST silkworm; NT screwworms. 156, 559.
- 571-730-950-1021?  
5-Acridone, 10-methyl-;  $\text{O}:(\text{C}_{12}\text{H}_8\text{N})\text{CH}_3$ .  
HT mosquito larvae. 487.
- 571-730-951-1003.  
Propiophenone,  $\beta$ -piperidyl-;  $\text{C}_6\text{H}_5\text{COCH}_2\text{CH}_2\text{C}_6\text{H}_5\text{NH}$ . ( $\alpha$ -Benzoyl- $\beta$ -piperidino ethane). 719P.
- 571-730-1024.  
4-Piperidone, 2, 2, 6, 6-tetramethyl-;  $\text{O}:(\text{C}_6\text{H}_4\text{N})-(\text{CH}_3)_4$ . (Triacetoneamine).  
T *Aphis rumicis*. 1152.
- 571-732-950.  
3, 4-Benzocinnolinone, CU;  $\text{C}_{12}\text{H}_8\text{N}_2\text{O}$ . (3, 4-Benzocinnoline oxide).  
HT codling moth and mosquito larvae. 487, 1291.
- 571-733-1023.  
2(1)- $\alpha$ -Triasone, 3, 4, 5, 6-tetrahydro-4, 6-dimethyl-;  $\text{O}:(\text{C}_6\text{H}_5\text{N}_2)(\text{CH}_3)_2$ . 361P.
- 571-740.  
2-Pyrrolidone;  $\text{O}:(\text{C}_4\text{H}_5\text{N})$ . (Pyrrolidone).  
T *Aphis rumicis*. 1153.
- 571-740-950.  
Phthalimidine;  $\text{O}:(\text{C}_8\text{H}_7\text{N})$ .  
T *Aphis rumicis*. 1152.
- 571-742.  
5-Pyrasolone;  $\text{O}:(\text{C}_8\text{H}_4\text{N}_2)$ . (Pyrasolone).  
T as mothproofing agent. 328P, 330P, 340P, 874P, 1176.
- 571-742-951-1021.  
5-Pyrasolone, 3-methyl-1-phenyl-;  $\text{O}:(\text{C}_8\text{H}_4\text{N}_2)-(\text{CH}_3)\text{C}_6\text{H}_5$ .  
NT greenhouse red spider and bean aphid at 4%; NT *Bombyx mori* and mosquito larvae. 487, 559, 1291, 1481.
- 571-742-951-1022.  
Antipyrine;  $\text{O}:(\text{C}_8\text{H}_7\text{N}_2)(\text{CH}_3)_2\text{C}_6\text{H}_5$ . (Analgesine; anodynine; dimethyloxyquinisine; 2, 3-dimethyl-1-phenyl-5(2)-pyrasolone; oxydimethylquinisine; phenasone; phenyl-dimethyl-pyrasole; phenylene; phenyl-methyl-isopyrasolone; phenyl-methyl-phenasone; pyrasine; pyrasoline; aedaline).  
NT screwworms, *Tinola biselliella*, and *Attagenus piceus*. 156, 739, 985, 1176.
- 571-742-1021.  
5-Pyrasolone, 3-methyl-;  $\text{O}:(\text{C}_8\text{H}_4\text{N}_2)\text{CH}_3$ .  
NT *Bombyx mori* larvae. 559.
- 571-801-820-950-1022-1389.  
Thiaxanthonium ethyl sulfate, 5-methyl-;  $\text{O}:(\text{C}_{12}\text{H}_8\text{S})(\text{CH}_3)\text{SO}_3\text{CH}_2\text{CH}_3$ . (8-Methylthioxanthone sulfonium methoxysulfate). 526P.
- 571-820-924.  
10-Thiaxanthone, 3, 4, 6, 7-dibenzo-;  $\text{C}_{22}\text{H}_{12}\text{OS}$ . (Dibenzo thioxanthone).  
ST greenhouse red spider at 1%; NT southern army worm at 1%. 1481.
- 571-820-924-950.  
10-Thiaxanthone, 2, 3-benzo-;  $\text{C}_{17}\text{H}_{10}\text{OS}$ . (Benzo-thioxanthone).  
ST greenhouse red spider at 2%; NT southern army worm at 4%. 1481.
- 571-820-950.  
Coumarin, 1-thio-;  $\text{O}:(\text{C}_9\text{H}_6\text{S})$ .  
T codling moth. 1327.
- 571-820-950.  
10-Thiaxanthone;  $\text{O}:(\text{C}_{12}\text{H}_8\text{S})$ . (Thioxanthone).  
ST greenhouse red spider at 1 and 2%; NT southern army worm at 4%. 1481.
- 571-825-950-951-1011-1030.  
2-Thianaphthenone, 4-( $\alpha$ -styryl)-;  $\text{O}:(\text{C}_8\text{H}_5\text{S})\text{CH}_2\text{CH}_2\text{C}_6\text{H}_5$ . (Benzal-4-methyl-2(1) thionaphthenone).  
HT codling moth larvae. 1291.
- 571-825-950-951-1022-1080.  
3-Thianaphthenone, 2-benzylidene-5-methyl-;  $\text{O}:(\text{C}_8\text{H}_5\text{S})(\text{CH}_3):\text{CHC}_6\text{H}_5$ . (1-Benzal-4-methyl-2(1)-thionaphthenone).  
NT mosquito larvae. 487.
- 571-825-951-1021.  
2-Thianaphthenone, 4-methyl-;  $\text{O}:(\text{C}_8\text{H}_5\text{S})\text{CH}_3$ . (4-Methyl-2-(1)-thionaphthenone).  
HT codling moth larvae. 1291.
- 571-841-930-1023.  
Camphor, monobromo-;  $\text{BrC}_{10}\text{H}_{15}\text{O}$ . (Camphor monobromated).  
NT screwworms. 156.
- 571-841-951-1011-1021.  
Acetophenone,  $\alpha$ -bromo-;  $\text{BrCH}_2\text{COC}_6\text{H}_5$ . (Bromo-methylphenylketone).  
T *Leptinotarsa decemlineata*. 1009.
- 571-841-952-1011.  
Acetophenone,  $\alpha$ -bromo-*p*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{COCH}_2\text{Br}$ . (*p*-Phenylphenacyl bromide).  
HT codling moth larvae; MT mosquito larvae. 487, 488, 1291.
- 571-851-924.  
1(2)-Naphthalene, 3, 4-dihydro-2-chloro-;  $\text{ClC}_{10}\text{H}_8\text{O}$ . (Naphthalene,  $\alpha$ -keto-chlorotetrahydro-;  $\alpha$ -keto-monochlorotetrahydronaphthalene; monochlorotetrahydronaphthalenon (1) 1-keto-monochlorotetrahydronaphthalene).  
T as mothproofing agent. 1176, 1390P.
- 571-851-951-983-1022.  
Ketone,  $\alpha$ -chloro-heptadecyl xylol;  $(\text{CH}_3)_2\text{C}_6\text{H}_5\text{COCH}(\text{Cl})(\text{CH}_2)_{15}\text{CH}_3$ . (Ketone,  $\alpha$ -chloroxylyl-heptadecyl).  
NT houseflies. 1276.
- 571-851-951-1011.  
Acetophenone, *p*-chloro-;  $\text{CH}_3\text{COC}_6\text{H}_4\text{Cl}$ . (Methyl *p*-chlorophenyl ketone).  
HT codling moth larvae. 1285.
- 571-851-952-1012.  
Acetophenone,  $\alpha$ -chloro-*p*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{COCH}_2\text{Cl}$ . (*p*-Phenylphenacyl chloride).  
ST screwworms at 0.67%; NT mosquito larvae. 156, 487.
- 571-851-1003.  
2-Propanone, 1-chloro-;  $\text{ClCH}_2\text{COCH}_3$ . (Chloroacetone).  
T *Sitophilus oryzae*; NT codling moth. 930, 1180.
- 571-852-924.  
1(2)-Naphthalene, dichlorotetrahydro-;  $\text{C}_{10}\text{H}_8(\text{Cl})_2\text{O}$ . (Naphthalene,  $\alpha$ -keto-dichlorotetrahydro).  
T as mothproofing agent. 1176, 1390P.
- 571-852-951-1011.  
Acetophenone,  $\alpha$ -*p*-dichloro-;  $\text{ClC}_6\text{H}_4\text{COCH}_2\text{Cl}$ . (*p*- $\alpha$ -Dichloroacetophenone).  
T as mothproofing agent; NT corn borer. 239, 1120.
- 571-852-951-1011.  
Acetophenone, 3, 4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{COCH}_3$ .  
T codling moth larvae and ST as mothproofing agent. 239, 1120, 1285.
- 571-852-952-1011.  
Acetophenone,  $\alpha,\alpha$ -dichloro-*p*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{C}(\text{OCHCl})_2$ .  
T screwworm larvae at 0.17%; NT mosquito larvae. 487, 944.
- 571-852-1003.  
2-Propanone, 1, 3-dichloro-;  $\text{ClCH}_2\text{COCH}_2\text{Cl}$ . ( $\alpha,\alpha$ -Dichloroacetone). 1178, 1248P.  
Phosgene — see 331-1021.
- 571-855-924.  
1(2)-Naphthalene, 2, 2, 3, 4, 4-pentachloro-1, 2, 3, 4-tetrahydro-;  $\text{O}:(\text{C}_{10}\text{H}_2\text{Cl}_5)$ . (2, 2, 3, 4, 4-Pentachloro-1-keto-1, 2, 3, 4-tetrahydro naphthalene).  
NT *Bombyx mori* larvae. 561.
- 571-881-975-1027.  
Amines, halogenated arylalkyl-, CU.  
T as mothproofing agent. 1176, 1365P.
- 571-912.  
9-Fluorenone;  $\text{O}:(\text{C}_{15}\text{H}_8)$ . (9-Oxofluorene; ketofluorene; diphenylene ketone).  
NT corn borer and *Pieris rapae*. 635, 1120.
- 571-912-951.  
Ketone, aenaphthenylphenyl-;  $\text{C}_6\text{H}_5\text{COC}_{10}\text{H}_7(\text{CH}_2)_2$ .  
NT screwworm larvae. 944.
- 571-912-951.  
Ketone, 2-fluorophenyl-;  $\text{C}_6\text{H}_5\text{OOC}_6\text{H}_4\text{F}$ .  
NT screwworm larvae. 944.
- 571-924-1011.  
Ketone, methyl 2-naphthyl-;  $\text{CH}_3\text{COC}_{10}\text{H}_7$ . ( $\beta$ -Acetonaphthone). 1365P.
- 571-930-1023.  
Camphor, natural;  $\text{C}_{15}\text{H}_{24}\text{O}$ .  
T rat flea, housefly, *Pasteuria pestis*, and as

- mothproofing agent; NT wireworms and *Hippodamia convergens*. 1P, 3P, 42, 66, 181P, 317P, 337P, 331P, 489P, 506P, 548, 574P, 583, 643A, 671, 796, 863P, 882P, 884P, 936P, 1024, 1025, 1077, 1101P, 1110, 1137P, 1138P, 1175, 1176, 1179, 1218, 1220, 1258P, 1261P, 1276, 1310, 1396, 1426P, 1465P, 1496P.
- 571-930-1023.  
Camphor, synthetic.  
T as mothproofing agent. 574P, 1179.
- 571-951-983-1023.  
Ketone, heptadecylxyl-, CU;  $(\text{CH}_3)_9\text{C}_6\text{H}_5\text{COC}_7\text{H}_{15}$ .  
Hss.  
NT houseflies. 1276.
- 571-951-989-1022.  
Ketone, undecylxyl-,  $(\text{CH}_3)_9\text{C}_6\text{H}_5\text{C}_{11}\text{H}_{23}$ .  
T houseflies. 1276.
- 571-951-990.  
Valerophenone;  $\text{CH}_3(\text{CH}_2)_8\text{COC}_6\text{H}_5$ . (Phenyl butyl ketone).  
NT wireworms. 846.
- 571-951-1003.  
Propiophenone;  $\text{C}_6\text{H}_5\text{COC}_2\text{H}_5$ .  
T houseflies. 1276.
- 571-951-1011.  
Acetophenone;  $\text{CH}_3\text{COC}_6\text{H}_5$ . (Methyl phenyl ketone; hyponone; acetylbenzene).  
T clothes moth, housefly, screwworms, *Lucilia cuprina* larvae, and codling moth larvae; NT *Melanoplus m. mexicanus*. 156, 849, 915, 1175, 1241P, 1242, 1276, 1285, 1291.
- 571-951-1011-1021.  
Acetophenone, p-methyl-,  $\text{CH}_3\text{COC}_6\text{H}_4\text{CH}_3$ . (Methyl p-tolyl ketone).  
T codling moth larvae. 1285, 1291.
- 571-951-1021-1212-1291.  
Selenium dichloride, bis(p-acetylphenyl)-;  $(\text{CH}_3\text{COC}_6\text{H}_4)_2\text{SeCl}_2$ .  
T as mothproofing agent. 399P, 429P, 679P, 1175.
- 571-952-999-1032.  
2, 4-Pentadien-1-one, 1, 5-diphenyl-,  $\text{C}_6\text{H}_5\text{CH}:\text{CH}-\text{CH}:\text{CHCOC}_6\text{H}_5$ . (Cinnamyl acetophenone).  
NT *Bombyx mori* larvae and NT corn borer at 4 lbs./100 gal. 559, 1122.
- 571-952-999-1033.  
3-Pentadienone, 1, 5-diphenyl-,  $(\text{C}_6\text{H}_5\text{CH}:\text{CH})_2\text{CO}$ . (Dibenzalacetone; cinnamone; dicinnamyl ketone; styryl ketone; distyryl ketone; 1, 4-pentadien-3-one, 1, 5-diphenyl).  
NT corn borer. 156, 1120.
- 571-952-1001-1030.  
3-Buten-2-one, 4-phenyl-,  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}_3$ . (Benzalacetone; benzylidene acetone; methyl styryl ketone; cinnamyl methyl ketone; acetocinnamone).  
T screwworms at 0.17-0.33%. 156.
- 571-952-1003.  
2-Propanone, 1, 3-diphenyl-,  $(\text{C}_6\text{H}_5\text{CH}_2)_2\text{CO}$ . (Ketone, dibenzyl).  
T houseflies. 1276.
- 571-952-1003-1030.  
Chalcone;  $\text{C}_6\text{H}_5\text{CH}:\text{CHCOC}_6\text{H}_5$ . (Benzalacetophenone; benzylideneacetophenone; phenyl styryl ketone; 1, 3-diphenyl-2-propen-1-one).  
T screwworms at 0.10-0.17%. 156.
- 571-952-1011.  
Desoxybenzoin;  $\text{C}_6\text{H}_5\text{CH}_2\text{COC}_6\text{H}_5$ . ( $\alpha$ -Phenylacetophenone; benzyl phenyl ketone).  
100% T mosquito larvae and 97% T codling moth larvae. 487, 1291.
- 571-952-1011.  
Acetophenone, p-phenyl-,  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{COCH}_3$ .  
NT screwworms. 156.
- 571-952-1021.  
Benzophenone;  $(\text{C}_6\text{H}_5)_2\text{CO}$ . (Phenyl ketone; diphenyl ketone; benzoyl benzene;  $\alpha$ -oxodiphenylmethane).  
T codling moth larvae, screwworms, clothes moths, houseflies, and southern army worm. 156, 331P, 1176, 1276, 1285, 1481.
- 571-957-1001-1023-1030.  
 $\alpha$ -Ionone;  $(\text{CH}_3)_2\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}_3$ . (4-(2, 6, 6-Trimethyl-2-cyclohexenyl)-3-buten-2-one).  
NT wireworms. 846.
- 571-957-1001-1023-1030.  
 $\beta$ -Ionone;  $(\text{CH}_3)_2\text{C}_6\text{H}_5\text{CH}:\text{CHCOCH}_3$ . (4-(2, 6, 6-Trimethyl-1-cyclohexenyl)-3-buten-2-one).  
ST wireworms. 846.
- 571-957-1003-1021-1030.  
Carvone;  $\text{C}_{10}\text{H}_{16}\text{O}$ . (d-6, 8(9)-p-Menthadien-2-one; carvol).  
T *Lucilia cuprina* larvae and T screwworms at 0.17-0.33%. 156, 849.
- 571-961.  
Cyclohexanone;  $\text{C}_6\text{H}_{10}\text{O}$ .  
T *Lucilia cuprina* and codling moth larvae and as mothproofing agent. 43, 44, 45, 156, 849, 1176, 1285.
- 571-961-1021.  
Cyclohexanone, 2-methyl-,  $\text{O}:(\text{C}_6\text{H}_5)\text{CH}_3$ . (o-Methylcyclohexanone).  
NT red scale. 268.
- 571-961-1021.  
Cyclohexanone, 3-methyl-,  $\text{O}:(\text{C}_6\text{H}_5)\text{CH}_3$ . (m-Methylcyclohexanone).  
NT red scale. 268.
- 571-961-1021.  
Cyclohexanone, 4-methyl-,  $\text{O}:(\text{C}_6\text{H}_5)\text{CH}_3$ . (p-Methylcyclohexanone).  
T clothes moths; NT red scale. 268, 401P, 405P, 1175.
- 571-961-1021.  
Cyclohexanone, methyl-, CU;  $\text{O}:(\text{C}_6\text{H}_5)\text{CH}_3$ .  
T as mothproofing agent. 94P, 405P, 1175, 1362P.
- 571-968.  
Cyclopentanone;  $\text{O}:(\text{C}_6\text{H}_5)$ . (Ketopentamethylene; adipic ketone).  
100% codling moth larvae. 156, 1285, 1291.
- 571-968-950.  
1-Indanone;  $\text{O}:(\text{C}_6\text{H}_5)$ . ( $\alpha$ -Hydrindone).  
T houseflies. 1276.
- 571-968-952-1022-1033.  
Cyclopentanone, 2, 5-dibenzal-,  $\text{O}:(\text{C}_6\text{H}_5)(\text{CH}:\text{CHC}_6\text{H}_5)_2$ . (Dibenzalicyclopentanone).  
NT corn borer and screwworm larvae. 944, 1120.
- 571-968-972-1003-1021.  
Thujone;  $\text{C}_{10}\text{H}_{16}\text{O}$ .  
T *Lucilia cuprina* larvae. 849.
- 571-988.  
2-Tridecanone;  $\text{C}_{11}\text{H}_{22}\text{COCH}_3$ . (Methyl undecyl ketone).  
90% T *Bombyx mori* larvae and T houseflies. 559, 1276, 1368P.
- 571-990.  
6-Hendecanone;  $\text{C}_9\text{H}_{18}\text{COC}_2\text{H}_5$ . (Di-n-amyl ketone).  
T *Sitophilus oryzae*. 1180.
- 571-991.  
2-Octanone, 2, 6-dimethyl-,  $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)_2\text{CH}(\text{CH}_3)_2\text{COCH}_3$ . 619P.
- 571-992.  
2-Nonanone;  $\text{CH}_3\text{CO}(\text{CH}_2)_6\text{CH}_3$ . (Methyl heptyl ketone).  
ST wireworms. 846.
- 571-992.  
4-Heptanone, 2, 6-dimethyl-,  $[(\text{CH}_3)_2\text{CHCH}_2]_2\text{CO}$ . (Diisobutyl ketone; s-diisopropylacetone; isovalerone; valerone).  
T codling moth larvae. 619P, 1285.
- 571-992-1033.  
2, 5-Heptadien-4-one, 2, 6-dimethyl-,  $(\text{CH}_3)_2\text{C}:\text{CHCOCH}:\text{C}(\text{CH}_3)_2$ . (Cryptox; di-isophrone; phorone?).  
T houseflies. 1276.
- 571-993.  
2-Octanone;  $\text{CH}_3\text{COC}_8\text{H}_{17}$ . (Hexylmethyl ketone).  
100% T codling moth larvae. 1285.
- 571-995.  
Butyrylone;  $\text{C}_6\text{H}_7\text{COC}_4\text{H}_9$ . (Dipropyl ketone).  
T *Sitophilus oryzae*. 1180.
- 571-995.  
2-Heptanone;  $\text{CH}_3\text{COC}_6\text{H}_{13}$ . (Methyl n-amyl ketone).  
100% T codling moth larvae and T *Sitophilus oryzae*. 1180, 1285.
- 571-995.  
3-Pentanone, 2, 4-dimethyl-,  $(\text{CH}_3)_2\text{CHCOCH}(\text{CH}_3)_2$ . (Diisopropyl ketone).  
T codling moth larvae, NT red scale. 268, 1285.
- 571-997.  
2-Hexanone;  $\text{CH}_3\text{CO}(\text{CH}_2)_4\text{CH}_3$ . (Methyl n-butyl ketone).  
NT red scale. 268.

- 571-997.  
Pinacolone;  $\text{CH}_3\text{COC}(\text{CH}_3)_2$ . (Methyl-*tert*-butyl ketone).  
NT red scale. 268.
- 571-997.  
2-Pentanone, 4-methyl-;  $\text{CH}_3\text{COCH}_2\text{CH}(\text{CH}_3)_2$ . (Isobutyl methyl ketone).  
T codling moth larvae, NT red scale. 268, 1285.
- 571-997-1030.  
Mesityl oxide;  $(\text{CH}_3)_2\text{C}=\text{CHCOCH}_3$ . (4-Methyl-3-penten-2-one; isopropylideneacetone).  
100% T rice weevil and HT codling moth larvae. 1180, 1291.
- 571-999.  
2-Pentanone;  $\text{CH}_3\text{COC}_2\text{H}_5$ . (Methyl *n*-propyl ketone).  
MT codling moth larvae; NT *Chrysomphalus aurantii*. 268, 1285.
- 571-999.  
3-Pentanone;  $\text{C}_2\text{H}_5\text{COC}_2\text{H}_5$ . (Diethyl ketone; *sym*-dimethylacetone; propione; ethyl ketone).  
NT red scale. 268.
- 571-999.  
2-Butanone, 3-methyl-;  $\text{CH}_3\text{COCH}(\text{CH}_3)_2$ . (Methyl isopropyl ketone).  
100% T codling moth larvae; NT *Chrysomphalus aurantii*. 268, 555.
- 571-1001.  
2-Butanone;  $\text{CH}_3\text{COC}_2\text{H}_5$ . (Methyl ethyl ketone).  
MT codling moth larvae; NT wireworms, red scale, and *Aphis rumicis*. 268, 846, 1152, 1285.
- 571-1003.  
Acetone;  $\text{CH}_3\text{COCH}_3$ . (2-Propanone, dimethyl ketone).  
T as mothproofing agent and as aphicide; NT red scale, *Aphis rumicis*, and *Tenebrio molitor*. 84, 268, 372P, 396P, 400P, 402P, 411P, 425P, 639P, 828P, 839P, 1010, 1152, 1164P, 1175, 1241P, 1242P, 1399P, 1400P, 1465P.
- 571-1003-1218-1393.  
Acetone, sodium bisulphite compound with;  $\text{CH}_3\text{COCH}_2\text{SO}_3\text{Na}$ .  
NT *Melanoplus m. mexicanus*. 1150.  
Carbon dioxide — see 1128-1350.  
Carbon monoxide — see 1128-1350.
- 571-1027-1045.  
Ketone, alkylaryl-, OU;  $\text{R}_1\text{COR}_2$ .  $\text{R}_1$  is an alkyl group and  $\text{R}_2$  is an alkyl, an aryl, or an aralkyl group. 1368P.
- 572-581-620-950.  
Coumarin, acetyl-4-hydroxy-, CU;  $\text{O}:(\text{C}_6\text{H}_4\text{O})(\text{OH})\text{COCH}_3$ . ( $\alpha$ -Acetobenzotetronic acid). 525P.
- 572-581-953-999.  
1, 5-Pentanedione, 3-(*o*-hydroxyphenyl)-1, 5-diphenyl-;  $\text{HOC}_6\text{H}_4\text{CH}(\text{CH}_3\text{COC}_6\text{H}_5)_2$ . (2-Hydroxy-benzaldiaacetophenone).  
ST as mothproofing agent; NT corn borer. 239, 1120.
- 572-582-910.  
Anthrarufin;  $\text{HOC}_6\text{H}_3(\text{CO})_2\text{C}_6\text{H}_4\text{OH}$ . (1, 5-Dihydroxyanthraquinone).  
NT screwworms and *Pieris rapae*. 156, 635.
- 572-582-952.  
Quinhydrone;  $(\text{O})_2\text{C}_6\text{H}_4\cdot\text{C}_6\text{H}_4(\text{OH})_2$ . (Benzoquinhydrone).  
T roaches and 31.9% T corn borer; NT as mothproofing agent. 239, 587.
- 572-584-910.  
Rufigallol;  $\text{C}_{14}\text{H}_8\text{O}_8$ . (Rufigallie acid).  
NT screwworms. 156.
- 572-588-732-951-1011-1218.  
Sodium phenobarbital;  $\text{NaO}(\text{O})_2:(\text{C}_6\text{H}_5\text{N})_2(\text{C}_6\text{H}_5)_2\text{C}_6\text{H}_5$ . (Sodium 5-ethyl-5-phenylbarbituric acid).  
T screwworms at 0.17-0.33%; NT mosquito larvae. 156, 487.
- 572-588-732-1012-1218.  
Sodium barbital;  $\text{NaO}(\text{O})_2:(\text{C}_6\text{H}_5\text{N})_2(\text{C}_6\text{H}_5)_2$ . (Sodium 5, 5-diethylbarbituric acid).  
T screwworms at 0.17-0.33%. 156.
- 572-591-954-1011-1023.  
Benzophenone, 5-methyl-*o*-phenylmethoxy-2'- $\alpha$ -toluyl-;  $\text{C}_6\text{H}_4\text{CH}_2\text{COC}_6\text{H}_4\text{COC}_6\text{H}_4(\text{CH}_3)\text{OCH}_2\text{C}_6\text{H}_5$ .  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.
- 572-591-954-1023.  
Ether, *p*-benzoylbenzyl *p*-benzoylphenyl-;  $\text{C}_6\text{H}_5\text{COC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{COC}_6\text{H}_5$ .  
Fly spray. 112, 690P.
- 572-592-625-952.  
Pinocresinol, diacetyl-;  $(\text{C}_6\text{H}_5\text{O})_2[\text{CH}_2\text{OC}_6\text{H}_4\text{COC}_6\text{H}_5]_2$ .  
NT when used as synergist with pyrethrum against houseflies. 617.
- 572-592-832-997-1004-1033.  
Succinic acid,  $\alpha,\beta$ -dimethyl-, di-(2-chloroallyl) ester;  $(\text{CH}_2\text{CHCl})_2(\text{COOCH}_2\text{CHCl})_2$ .  
Fly spray. 112, 216P.
- 572-592-852-1001-1004-1033.  
Succinic acid, di-(2-chloroallyl) ester;  $(\text{CH}_2)_2(\text{COOCH}_2\text{CHCl})_2$ .  
69% T houseflies at 3%. 112, 216P.
- 572-592-953.  
Phenquinone;  $\text{C}_{18}\text{H}_{12}\text{O}_4$ .  
NT corn borer. 1120.
- 572-592-1001-1004-1033.  
Succinic acid, diallyl ester;  $(\text{CH}_2)_2(\text{COOCH}_2\text{CH}::\text{CH}_2)_2$ .  
Fly spray. 112, 216P.
- 572-621-630-1003-1022.  
Filicin (male fern);  $(\text{CH}_3)_2(\text{C}_6\text{H}_5\text{O})(::\text{O})\text{COC}_2\text{H}_5?$   
HT mosquito larvae at 0.1%. 643A.
- 572-625-854-950.  
Phthalic anhydride, tetrachloro-;  $(\text{O})_2:(\text{C}_6\text{O})\text{Cl}_4$ .  
T screwworms at 0.33-0.67%. 156.
- 572-625-874-950.  
Phthalic anhydride, tetraiodo-;  $(\text{O})_2:(\text{C}_6\text{O})\text{I}_4$ .  
NT *Bombyx mori* larvae. 110, 559.
- 572-625-950.  
Phthalic anhydride;  $(\text{O})_2:(\text{C}_6\text{H}_4\text{O})$ . (Phthalandione).  
ST screwworms at 0.67%. 156, 1291.
- 572-625-950-1022.  
Cantharidin. (Hexahydro-3a, 7a-dimethyl-4, 7-epoxy-isobenzofuran-1, 3-dione).  
T most lepidopteran larvae. 583A.
- 572-671-810.  
Anthraquinone, 1-amino-;  $(\text{O})_2:(\text{C}_{14}\text{H}_7)\text{NH}_2$ . ( $\alpha$ -Anthraquinonylamine).  
NT screwworms. 156.
- 572-671-810.  
Anthraquinone, 2-amino-;  $(\text{O})_2:(\text{C}_{14}\text{H}_7)\text{NH}_2$ . ( $\beta$ -Anthraquinonylamine).  
NT screwworms. 156.
- 572-672-910.  
Anthraquinone, 2, 5-diamino-;  $(\text{O})_2:(\text{C}_{14}\text{H}_8)(\text{NH}_2)_2$ .  
NT Colorado potato beetle and Mexican bean beetle. 606.
- 572-682-910-952-1022.  
Anthraquinone, 1, 4-ditoluino-;  $(\text{O})_2:(\text{C}_{14}\text{H}_8)(\text{NHC}_6\text{H}_4\text{CH}_3)_2$ . 1444P.
- 572-732-742-1023.  
Caffeine;  $\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2\cdot\text{H}_2\text{O}$ . (1, 3, 7-Trimethylxanthine).  
NT codling moth and clothes moth larvae. 915, 985, 1176.
- Caffeine arsenate.  
ST tobacco worm moths. 553.
- Caffeine benzoate.  
NT silkworms. 561.
- Caffeine citrate.  
NT silkworms. 561, 915.
- Caffeine hydroxide.  
NT silkworms. 561.
- Caffeine salicylate.  
30% T silkworms. 561.
- Caffeine tannate.  
40% T silkworms. 561.
- 572-732-796.  
Barbituric acid, 2-thio-;  $(\text{O})_2:(\text{C}_4\text{H}_4\text{N}_2)_2\text{S}$ . (Thio-barbituric acid).  
69% T codling moths; NT *Bombyx mori* larvae. 487, 559, 1291, 1432.
- 572-740.  
Succinimide;  $(\text{O})_2:(\text{C}_4\text{H}_5\text{N})$ .  
T *Aphis rumicis*. 1152.
- 572-740-842-950.  
Isatin, 5, 7-dibromo-;  $(\text{O})_2:(\text{C}_6\text{H}_3\text{N})\text{Br}_2$ . 527P.
- 572-740-950.  
Phthalimide;  $(\text{O})_2:(\text{C}_6\text{H}_4\text{N})$ . (1, 3-Isocindole-dione; *o*-phthalic imide).  
63% T codling moth larvae; NT screwworms and mosquito larvae. 156, 296, 487, 559, 915.

- 572-740-950-1030.  
Indigotin;  $C_{16}H_{10}N_2O_2$ . (Indigo blue; indigo).  
NT clothes moths and screwworms. 156, 974, 1176.
- 572-740-950-1196.  
Potassium phthalimide;  $(O)_2(C_6H_4N)K$ .  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 572-740-950-1276.  
Phthalimide *N*-bromo-;  $(O)_2(C_6H_4N)Br$ . (Phthalic acid bromimide).  
T as mothproofing agent. 1176, 1385P.
- 572-742-851-951-1021.  
Hydantoin, 5-(*p*-chlorophenyl)-5-methyl-;  $(O)_2(C_6H_4N)(CH_3)C_6H_4Cl$ .  
NT corn borer at 4 lb./100 gal. 1122.
- 572-742-951-1021.  
Hydantoin, 5-methyl-5-phenyl-;  $(O)_2(C_6H_5N_2)(CH_3)C_6H_5$ .  
NT corn borer at 4 lb./100 gal. 1122.
- 572-742-968.  
Hydantoin, 5-pentamethylene;  $(O)_2(C_6H_5N_2)C_5H_{11}$ .  
NT corn borer at 4 lb./100 gal. 1122.
- 572-742-1004.  
Hydantoin, 5, 5-diisopropyl-;  $(O)_2(C_6H_5N_2)(C_2H_5)_2$ .  
NT corn borer at 4 lb./100 gal. 1122.
- 572-750-950-951.  
Phthalimide, *N*-phenyl-;  $(O)_2(C_6H_4N)C_6H_5$ .  
NT corn borer at 4 lb./100 gal. 1122.
- 572-854-910.  
Anthraquinone, 2-chloro-;  $(O)_2(C_{14}H_7)Cl$ . ( $\beta$ -Chloro-anthraquinone).  
97% T codling moth larvae; NT *Bombyx mori* and mosquito larvae. 156, 487, 559, 1291.
- 572-854-951.  
Chloranil;  $(O)_2C_6Cl_4$ . ("Sporgon"; tetrachloroquinone; tetrachlorobenzoquinone).  
T eggs of *Oncopeltus fasciatus*; NT screwworms. 13, 156.
- 572-910.  
Anthraquinone;  $(O)_2(C_{14}H_8)$ . (9, 10-Dihydroxy-9, 10-diketoanthracene).  
T Japanese beetles, 63% T codling moth larvae, and ST greenhouse red spider; NT *Epilachna borealis*, clothes moths, southern army worm, and screwworms. 156, 331P, 494, 739, 1008, 1176, 1291, 1481.
- 572-910.  
Phenanthrenequinone;  $(O)_2(C_{14}H_8)$ . (Phenanthraquinone; 9, 10-dihydro-9, 10-dioxophenanthrene).  
NT *Bombyx mori* larvae. 559.
- 572-910-1021.  
Anthraquinone, 2-methyl-;  $(O)_2(C_{14}H_7)CH_3$ . ( $\beta$ -Methyl anthraquinone).  
89% T codling moth larvae; ST mosquito larvae; NT silkworm larvae. 487, 488, 559, 1291.
- 572-924.  
1, 2-Naphthoquinone;  $(O)_2(C_{10}H_6)$ . ( $\beta$ -Naphthoquinone).  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 572-924.  
1, 4-Naphthoquinone;  $(O)_2(C_{10}H_6)$ . (1, 4-Dihydro-1, 4-diketonaphthalene;  $\alpha$ -naphthoquinone).  
NT *Bombyx mori*, *Tineola biselliella*, and *Attagenus piceus*. 559, 739.
- 572-928.  
1, 3-Indandione;  $(O)_2(C_8H_6)$ .  
35% T houseflies. 791.
- 572-951.  
Quinone;  $C_6H_4O_2$ . (*p*-Benzoquinone; 1, 4-cyclohexadienedione).  
T screwworms at 0.17-0.33%. 156.
- 572-951-1001.  
1, 3-Butanedione, 1-phenyl-;  $CH_3COCH_2COC_6H_5$ . (Benzoylacetoone).  
T houseflies and as mothproofing agent. 112, 227P, 684P, 1175, 1276.
- 572-952-1003.  
1, 3-Propanedione, 1, 3-diphenyl-;  $(C_6H_5CO)_2CH_3$ . (Dibenzoyl methane).  
T houseflies at 1%. 112, 792P.
- 572-952-1011.  
Benzil;  $(C_6H_5CO)_2$ . (Diphenylglyoxal; dibenzoyl; bibenzoyl; diphenyl diketone).  
T clothes moths, houseflies, and 81% T codling moth larvae. 156, 333P, 1176, 1276, 1285, 1291.
- 572-953-999.  
1, 5-Pentanedione, 1, 3, 5-triphenyl-;  $C_6H_5CH(CH_3-COC_6H_5)_3$ . (Benzaldiacetophenone; benzylidenediacetophenone).  
ST as mothproofing agent; NT corn borer. 239, 1120.
- 572-997.  
2, 5-Hexanedione;  $CH_3COCH_2CH_2COCH_3$ . (Acetylacetone; *sym*-diacetylane).  
NT codling moth larvae. 1285.
- 572-999.  
2, 4-Pentanedione;  $CH_3COCH_2COCH_3$ . (Acetylacetone).  
T houseflies at 1%; MT *Chrysomphalus aurantii*. 112, 268, 792P.
- 572-1001.  
2, 3-Butanedione;  $CH_3COCOC_6H_5$ . (Diacetyl; dimethylglyoxal; biacetyl; dimethyl diketone).  
NT red scale and rice weevil. 268, 1180.
- 572-1027.  
Ketones.  
Fly spray. 112, 792P.
- 573-581-962-1011-1024.  
2-[ $\alpha$ -(2-Hydroxy-6-oxo-4, 4-dimethyl-1-cyclohexenyl)-ethyl]5, 5-dimethyl-1, 3-cyclohexanedione;  $(O)_2(C_6H_5)(C_6H_4)CH(CH_3)C_6H_4(C_6H_5)(O)OH$ .  
NT as mothproofing agent. 239.
- 573-620-951-1022.  
1, 2-Pyran-2, 4(3)-dione, 3-benzoyl-6-methyl-;  $CH_3C_6H_5O(O)_2COC_6H_5$ . (Dehydrobenzoyl acetic acid).  
16.1% T corn borer. 1120.
- 573-620-1011-1021.  
1, 2-Pyran-2, 4(3)dione, 3-acetyl-6-methyl-;  $(O)_2(C_6H_5O)(CH_3)COC_6H_5$ .  
ST corn borer; NT as mothproofing agent. 239, 1120.
- 573-732.  
Barbituric acid;  $(O)_2(C_4H_4N_2)$ . (Malonylurea; pyridintrione).  
T screwworms at 0.17-0.33%; NT codling moth larvae. 156, 915.
- 573-732-742.  
Uric acid;  $C_5H_4N_2O_6$ .  
Attrahent for oriental peach moth. 1094.
- 573-732-842.  
Barbituric acid, 5, 5-dibromo-;  $(O)_2(C_4H_2N_2)Br_2$ .  
ST codling moth larvae. 156, 915.
- 573-732-852.  
Barbituric acid, 5, 5-dichloro-;  $(O)_2(C_4H_2N_2)Cl_2$ .  
NT codling moth larvae. 915.
- 573-732-951-1011-1218.  
Sodium phenobarbital — see 572-588-732-951-1011-1218.
- 573-732-999-1011.  
Amytal;  $(O)_2(C_4H_2N_2)(C_6H_5)C_6H_{11}$ . (5-Ethyl-5-iscamylbarbituric acid).  
NT mosquito larvae. 487.
- 573-732-1012.  
Barbituric acid, 5, 5-diethyl-;  $(O)_2(C_4H_2N_2)(C_2H_5)_2$ . (Barbitol; veronal; barbitone; malourea).  
MT codling moth larvae and T screwworms at 0.10-0.17%. 156, 915.
- 573-732-1012-1218.  
Sodium barbital — see 572-588-732-1012-1218.
- 573-733.  
Cyanuric acid;  $(O)_2(C_6H_3N_3)$ . (*s*-Triazinetrilol; trihydroxyeyanidine; triyanic acid).  
NT mosquito larvae and rice weevil. 487, 1180.
- 573-742.  
Parabanic acid;  $(O)_2(C_6H_5N_3)$ . (Oxalyi urea; imid-asolidintrione).  
NT codling moth larvae. 915.
- 573-924-928-1021.  
1, 3-Indandione, 2-(2-naphthoyl)-;  $(O)_2(C_6H_5)COC_6H_4$ . (2- $\beta$ -Naphthoyl-1, 3-indandione).  
40% T houseflies. 791.
- 573-928-951-1021.  
1, 3-Indandione, 2-benzoyl-;  $(O)_2(C_6H_5)COC_6H_5$ .  
50% T houseflies. 791.
- 573-928-961-1021.  
1, 3-Indandione, 2-hexahydrobenzoyl-;  $(O)_2(C_6H_5)COC_6H_{11}$ .

- 70% T houseflies. 791.  
573-928-995.  
1, 3-Indandione, 2-*semanthoyl*-;  $(O)_2(C_6H_5)COOC_6H_5$ .  
51% T houseflies. 791.  
573-928-997.  
1, 3-Indandione, 2-*caproyl*-;  $(O)_2(C_6H_5)COC_6H_{11}$ .  
63% T houseflies. 791.  
573-928-999.  
1, 3-Indandione, 2-*pivalyl*-;  $(O)_2(C_6H_5)COOC_4H_9$ .  
89% T houseflies. 791.  
573-928-999.  
1, 3-Indandione, 2-*isovaleryl*-;  $(O)_2(C_6H_5)COOC_4H_9$ .  
80% T houseflies. 791.  
573-928-999-1030.  
1, 3-Indandione, 2-*senedoyl*-;  $(O)_2(C_6H_5)COCH_2C(CH_3)_3$ .  
33% T houseflies. 791.  
573-928-1001.  
1, 3-Indandione, 2-*butyryl*-;  $(O)_2(C_6H_5)COOC_4H_9$ .  
63% T houseflies. 791.  
573-928-1001.  
1, 3-Indandione, 2-*isobutyryl*-;  $(O)_2(C_6H_5)COOC_4H_9$ .  
58% T houseflies. 791.  
573-928-1003.  
1, 3-Indandione, 2-*propionyl*-;  $(O)_2(C_6H_5)COOC_3H_7$ .  
49% T houseflies. 791.  
573-928-1011.  
1, 3-Indandione, 2-*acetyl*-;  $(O)_2(C_6H_5)COCH_3$ .  
37% T houseflies. 791.  
573-955-993.  
1, 7-Heptanedione, 4-benzoyl-1, 3, 5, 7-tetraphenyl-;  $C_6H_5COCH[CH(C_6H_5)CH_2COC_6H_5]_2$ . (Dibenzaltri-acetophenone (isomer B)).  
ST as mothproofing agent; NT corn borer. 239, 1120.  
574-582-732.  
Alloxantin;  $C_8H_8N_4O_8 \cdot 2H_2O$ . (Uroxin).  
ST codling moth larvae. 915.  
574-740-950-1011.  
Phthalimide, *p,p'*-ethylenedi-;  $(O)_2(C_6H_4N)CH_2CH_2(C_6H_4N)(O)_2$ .  
NT *Bombyx mori* larvae. 559.  
581-591-625-730-950-1022-1389.  
Codeine sulphate;  $(C_{18}H_{21}O_5N)_2 \cdot H_2SO_4$ .  
T *Aphis rumicis*. 1152.  
581-591-665-852-952.  
Guaiacol, 4-(2, 5-dichlorophenylazo)-;  $Cl_2C_6H_3NNC_6H_4(OCH_3)OH$ .  
NT mosquito larvae. 487.  
581-591-665-852-952-1011.  
Phenol, 4-(2, 5-dichlorophenylazo)-3-ethoxy-;  $Cl_2C_6H_3NNC_6H_4(OC_2H_5)OH$ .  
62% T mosquito larvae. 487, 488.  
581-591-665-924-951-1021.  
2-Naphthol, 1-(*o*-anisylazo)-;  $CH_3OC_6H_4NNC_{10}H_7OH$ .  
66% T mosquito larvae. 487.  
581-591-681-692-1027.  
Hydroxyamino compounds, CU;  $R_1N(R_2)C(NH)R_3NROH$ .  
R is selected from the group consisting of alkyl, alkoxyalkyl, and hydroxyalkyl radicals, etc. 316P.  
581-591-681-800-952-1011.  
Phenol, *p*-phenetidin-;  $C_6H_5OC_2H_4NHC_2H_5OH$ .  
(Sulfurized *p*-ethoxy-*p*-hydroxy-diphenylamine).  
40% T Mexican bean beetle. 606, 1432.  
581-591-720-730-950-1011-1022-1030.  
Quinine;  $C_{20}H_{24}O_5N_2 \cdot 3H_2O$ .  
T as mothproofing agent; NT codling moth larvae. 744P, 885P, 915, 1176, 1179, 1281, 1282P.  
581-591-720-730-950-1011-1022-1030.  
Quinidine;  $C_{20}H_{24}O_5N_2$ . (Isomer of quinine).  
T as mothproofing agent. 739, 740P, 742, 743, 744P, 1176.  
581-591-720-730-950-1011-1022-1030-1291.  
Quinine hydrochloride;  $C_{20}H_{24}O_5N_2 \cdot HCl$ .  
T as mothproofing agent. 739, 1176.  
581-591-720-730-950-1011-1022-1030-1291.  
Quinidine hydrochloride;  $C_{20}H_{24}O_5N_2 \cdot HCl$ .  
T as mothproofing agent. 739, 1176.  
581-591-720-730-950-1011-1022-1030-1312.  
Quinidine hydrofluoride;  $C_{20}H_{24}O_5N_2 \cdot HF$ .  
T as mothproofing agent. 739, 1176.  
581-591-720-730-950-1011-1022-1030-1389.  
Quinine sulphate;  $(C_{20}H_{24}O_5N_2)_2 \cdot H_2SO_4$ .  
T as mothproofing agent; NT clothes moths (985).  
739, 885P, 985, 1176.  
581-591-720-730-950-1011-1022-1030-1389.  
Quinidine sulphate;  $(C_{20}H_{24}O_5N_2)_2 \cdot H_2SO_4$ .  
T *Aphis rumicis* and as mothproofing agent. 739, 744P, 1153, 1176.  
Cinchona alkaloids.  
T as mothproofing agent. 44, 192P, 739, 740P, 741P, 744P, 885P, 1176.  
Cinchonidine hydrochloride (exact constitution indefinite);  $C_{20}H_{24}N_2O_5 \cdot HCl$ .  
T as mothproofing agent. 739, 1176.  
Cinchonidine oleate (exact constitution indefinite);  $C_{20}H_{24}N_2O_5 \cdot HOOC C_{17}H_{33}$ .  
T as mothproofing agent. 739, 1176.  
Quinidine hydrochloride (exact constitution indefinite);  $C_{20}H_{24}O_5N_2 \cdot HCl$ .  
T as mothproofing agent. 739, 1176.  
Quinidine oleate (exact constitution indefinite);  $C_{20}H_{24}O_5N_2 \cdot HOOC C_{17}H_{33}$ .  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.  
Quinoidine, (a mixture of quinotoxins prepared from quinoidine).  
T as mothproofing agent. 739, 1176.  
Quinoidine oleate.  
T as mothproofing agent. 739, 1176.  
Quinoidine, (a mixture of cinchona alkaloids, constitution unknown).  
T as mothproofing agent; NT silkworms and *Melanoplus m. mexicanus*. 561, 739, 740P, 744P, 745P, 1150, 1176.  
Quinoidine hydrochloride.  
T as mothproofing agent. 739, 1176.  
Quinoidine oleate.  
T as mothproofing agent. 739, 745P, 915, 1176.  
For other cinchona alkaloid derivatives see:  
541-581-591-720-730-950-983-1011-1022-1033.  
541-581-720-730-950-983-1011-1021-1033.  
541-582-720-730-950-951-1011-1022-1030.  
For compounds related to quinine see:  
541-730-950-951-1021.  
541-730-950-968-1021.  
581-720-730-950-1011-1021-1030.  
581-720-730-950-1011-1021-1030-1291.  
581-720-730-950-1011-1021-1030-1312.  
581-720-730-950-1011-1021-1030-1389.  
581-591-791-924.  
2-Naphthol, 1-(1-mercapto-2-naphthoxy)-;  $HSC_{10}H_7OC_{10}H_7OH$ .  
90% T mosquito larvae. 487.  
581-591-841-851-951-961-1011.  
Ethanol, 2-[4-(*p*-bromophenyl)-2-chlorocyclohexoxy]-;  $BrC_6H_4C_6H_4(Cl)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-(4-bromophenyl)-2-chloro-cyclohexanol).  
T as fly spray. 112, 226P.  
581-591-841-851-951-961-1011.  
Ethanol, 2-(2-bromo-6-chloro-4-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_3(Cl)(Br)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-cyclohexyl-6-chlorophenol).  
T as fly spray. 112, 226P.  
581-591-841-851-951-961-1011.  
Ethanol, 2-(4-bromo-2-chloro-6-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_3(Br)(Cl)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-cyclohexyl-4-bromo-6-chlorophenol).  
T as fly spray. 112, 226P.  
581-591-841-851-951-961-1011.  
Ethanol, 2-[4-bromo-2-(3-chlorocyclohexyl)phenoxy]-;  $ClC_6H_4C_6H_3(Br)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-(3-chloro-cyclohexyl)-4-bromophenol).  
Fly spray. 112, 226P.  
581-591-841-851-951-961-1003.  
1-Propanol, 2-(4-*tert*-amyl-2-bromo-6-chlorophenoxy)-;  $C_6H_{11}C_6H_3(Br)(Cl)OC_6H_4OH$ . (Hydroxy-propyl ether of 2-chloro-4-*tert*-octyl-6-bromophenol).  
Fly spray. 112, 231P.  
581-591-841-851-951-999-1011.  
Ethanol, 2-(4-*tert*-amyl-2-bromo-6-chlorophenoxy)-;  $C_6H_{11}C_6H_3(Br)(Cl)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-6-chloro-4-*tert*-amyl phenol).  
Fly spray. 112, 226P.



581-591-841-951-1001-1011.

Ethanol, 2-(2-bromo-4-*tert*-butyl-6-chlorophenoxy)-;  $C_6H_5C_6H_4(Br)(Cl)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-chloro-4-*tert*-butyl-6-bromo-phenol).  
Fly spray. 112, 230P, 231P.

581-591-841-951-982-1003.

1-Propanol, (2-bromo-6-chloro-4-phenylphenoxy)-;  $C_6H_5C_6H_4(Br)(Cl)OC_3H_7OH$ . (Hydroxy-propyl ether of 4-hydroxy-3-bromo-6-chlorodiphenyl).  
Fly spray. 112, 226P.

581-591-841-951-982-1011.

Ethanol, 2-(4-bromo-2-chloro-6-phenylphenoxy)-;  $C_6H_5C_6H_4(Br)(Cl)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-chloro-6-bromodiphenyl).  
Fly spray. 112, 226P.

581-591-841-951-982-1011.

Ethanol, 2-(2-bromo-6-chloro-4-phenylphenoxy)-;  $C_6H_5C_6H_4(Br)(Cl)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-bromo-6-chloro-diphenyl).  
Fly spray. 112, 226P.

581-591-841-951-981-1003.

1-Propanol, (2-bromo-6-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-bromo-4-cyclohexyl phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1003.

1-Propanol, (2-bromo-6-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-cyclohexyl-6-bromophenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1003.

1-Propanol, (4-bromo-2-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-cyclohexyl-4-bromophenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-[4-bromo-3-(2-chlorocyclohexyl)phenoxy]-;  $ClC_6H_4C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-(2-chloro-cyclohexyl-4-bromophenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-[2-(*m*-bromocyclohexyl)phenoxy]-;  $BrC_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-(3-bromo-cyclohexyl) phenol).  
Fly spray 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-[2-(*o*-bromocyclohexyl)phenoxy]-;  $BrC_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-(2-bromo-cyclohexyl) phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-[2-(*p*-bromocyclohexyl)phenoxy]-;  $BrC_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-(4-bromo-cyclohexyl) phenol).  
Fly spray 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-[4-(*p*-bromocyclohexyl)-phenoxy]-;  $BrC_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-(4-bromo-cyclohexyl) phenol).  
Fly spray 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(2-bromo-4-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-cyclohexyl phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(2-bromo-6-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-cyclohexyl-6-bromophenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(2-bromo-6-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-6-bromophenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(3-bromo-2-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-3-bromo phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(4-bromo-3-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-cyclohexyl-4-bromo phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(4-bromo-2-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4-bromo phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011.

Ethanol, 2-(6-bromo-2-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-6-bromo phenol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011-1021.

Ethanol, 2-[4-(*p*-bromophenyl) 2-methylcyclohexoxy]-;  $BrC_6H_4C_6H_4(CH_3)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-(4-bromophenyl)2-methyl cyclohexanol).  
Fly spray. 112, 226P.

581-591-841-951-981-1011-1021.

1-Propanol, (9-bromo-4-*tert*-octylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-bromo-4-*tert*-octyl phenol).  
Fly spray. 112, 231P.

581-591-841-951-981-1011

Ethanol, 2-(2-bromo-4-*tert*-octylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-*tert*-octyl phenol).  
Fly spray. 112, 230P.

581-591-841-951-981-1011-1021.

Ethanol, 2-(2-bromo-6-methyl-4-*tert*-octylphenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4-*tert*-octyl-6-bromo phenol).  
Fly spray. 112, 231P.

581-591-841-951-981-1011.

Ethanol, 2-(2-bromo-4-*tert*-heptylphenoxy)-;  $C_7H_{13}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-*tert*-heptyl phenol).  
Fly spray. 112, 230P.

581-591-841-951-981-1011.

Ethanol, 2-(2-bromo-4-*tert*-hexylphenoxy)-;  $C_6H_{13}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-*tert*-hexyl phenol).  
Fly spray. 112, 230P, 231P.

581-591-841-951-981-1011.

1-Propanol, 2-(2-*tert*-amyl-2-bromophenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-bromo-4-*tert*-amyl phenol).  
Fly spray. 112, 231P.

581-591-841-951-981-1011

Ethanol, 2-(2-*tert*-amyl-4-bromophenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-*tert*-amyl-4-bromo phenol).  
Fly spray. 112, 230P.

581-591-841-951-981-1011.

Ethanol, 2-(4-*tert*-amyl-2-bromophenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-*tert*-amyl phenol).  
Fly spray 112, 230P, 231P.

581-591-841-951-981-1011.

Ethanol, 2-(5-*tert*-amyl-2-bromophenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-*tert*-amyl-6-bromo phenol).  
Fly spray. 112, 230P.

581-591-841-951-981-1011-1021

Ethanol, 2-(4-*tert*-amyl-2-bromo-6-methylphenoxy)-;  $C_6H_{11}C_6H_4(Br)(CH_3)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4-*tert*-amyl-6-bromo-phenol).  
Fly spray. 112, 231P.

581-591-841-951-981-1011-1021.

Ethanol, 2-(5-*tert*-amyl-4-bromo-2-methylphenoxy)-;  $C_6H_{11}C_6H_4(Br)(CH_3)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-5-*tert*-amyl-4-bromo-phenol).  
Fly spray. 112, 230P.

581-591-841-951-1000.

1-Pentanol, (4-*tert*-amyl-2-bromophenoxy)-;  $C_6H_{11}C_6H_4(Br)OC_5H_{11}O$ . (Hydroxy-pentyl ether of 2-bromo-4-*tert*-amyl phenol).  
Fly spray. 112, 230P.

581-591-841-951-1000-1003.

1-Propanol, (2, 4-di-*tert*-amyl-6-bromophenoxy)-;  $(C_6H_{11})_2C_6H_4(Br)OC_3H_7OH$ . (Hydroxy-propyl ether of 2, 4-di-*tert*-amyl-6-bromo phenol).  
Fly spray. 112, 231P.

581-591-841-951-1000-1011

Ethanol, 2-(2, 4-di-*tert*-amyl-6-bromophenoxy)-;



- (C<sub>6</sub>H<sub>11</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2, 4-di-tertiary-amyl-6-bromo phenol).  
Fly spray. 112, 230P.
- 581-591-841-951-1001-1011.  
Ethanol, 2-(4-bromo-2-*tert*-butylphenoxy)-; C<sub>6</sub>H<sub>5</sub>-C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-bromo-4-tertiary-butyl phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-841-951-1001-1011.  
Ethanol, 2-(4-bromo-2-*tert*-butylphenoxy)-; C<sub>6</sub>H<sub>5</sub>-C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-4-bromo phenol).  
Fly spray. 112, 230P.
- 581-591-841-951-1001-1011-1021.  
Ethanol, 2-(2-bromo-4-*tert*-butyl-6-methylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)(CH<sub>3</sub>)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4-tertiary-butyl-6-bromo phenol).  
Fly spray. 112, 231P.
- 581-591-841-952-997-1011.  
Ethanol, 2-[4-isohexyl-2-(*o*-bromophenyl)phenoxy]-; BrC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>5</sub>(C<sub>6</sub>H<sub>13</sub>)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2'-bromo-5-isohexyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-841-952-999-1011.  
Ethanol, 2-(2-*n*-amyl-4-bromo-6-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)(C<sub>6</sub>H<sub>11</sub>)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-*n*-amyl-5-bromodiphenyl).  
Fly spray. 112, 228P.
- 581-591-841-952-1001-1003.  
1-Propanol, (2-bromo-6-isobutyl-4-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)(C<sub>6</sub>H<sub>5</sub>)OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 4-hydroxy-3-iso-butyl-5-bromo diphenyl).  
Fly spray. 112, 229P.
- 581-591-841-952-1001-1003.  
1-Propanol, (4-bromo-2-*tert*-butyl-6-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)(C<sub>6</sub>H<sub>5</sub>)OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 2-hydroxy-3-tertiary-butyl-5-bromo diphenyl).  
Fly spray. 112, 229P.
- 581-591-841-952-1001-1011-1021.  
Ethanol, 2-(4-bromo-2-benzyl-6-*tert*-butylphenoxy)-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>(Br)(C<sub>6</sub>H<sub>5</sub>)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-4-bromo-6-benzyl phenol).  
Fly spray. 112, 230P.
- 581-591-841-952-1002-1011.  
Ethanol, 2-[4-(*p*-bromophenyl)-2, 6-di-*tert*-butylphenoxy]-; BrC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>5</sub>(C<sub>6</sub>H<sub>5</sub>)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3, 5-di-tertiary-butyl-4'-bromo diphenyl).  
Fly spray. 112, 228P.
- 581-591-841-952-1003.  
1-Propanol, (2-bromo-4-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 3-bromo-4-hydroxy-diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-841-952-1003.  
1-Propanol, (2-bromo-6-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 2-hydroxy-3-bromo-diphenyl).  
Fly spray. 112, 229P.
- 581-591-841-952-1003.  
1-Propanol, (4-bromo-2-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 2-hydroxy-5-bromo diphenyl).  
Fly spray. 112, 229P.
- 581-591-841-952-1003-1011.  
Ethanol, 2-(4-bromo-2-phenyl-6-*n*-propylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)(C<sub>6</sub>H<sub>7</sub>)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-*n*-propyl-5-bromo diphenyl).  
Fly spray. 112, 229P.
- 581-591-841-952-1011.  
Ethanol, 2-(2-bromo-4-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 3-bromo-4-hydroxy diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-841-952-1011.  
Ethanol, 2-(2-bromo-5-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4-bromo diphenyl).  
Fly spray. 112, 228P.
- 581-591-841-952-1011.  
Ethanol, 2-(2-bromo-6-phenylphenoxy)-; C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>5</sub>(Br)OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4, 6-dibromo phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1001.  
1-Butanol, (4-cyclohexyl-2, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>4</sub>H<sub>9</sub>OH. (Hydroxy-butyl ether of 2, 6-dibromo-4-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1003.  
1-Propanol, (2-cyclohexyl-4, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 2-cyclohexyl-4, 6-dibromo phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1003.  
1-Propanol, (3-cyclohexyl-4, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 3-cyclohexyl-4, 6-dibromo phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1003.  
1-Propanol, (4-cyclohexyl-2, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>3</sub>H<sub>7</sub>OH. (Hydroxy-propyl ether of 2, 6-dibromo-4-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1011.  
Ethanol, 2-(2-cyclohexyl-4, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4, 6-dibromo phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1011.  
Ethanol, 2-(2-cyclohexyl-4, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4, 6-dibromo phenol).  
Fly spray. 112, 226P.
- 581-591-842-951-961-1011.  
Ethanol, 2-(2-cyclohexyl-4, 6-dibromophenoxy)-; C<sub>6</sub>H<sub>11</sub>C<sub>6</sub>H<sub>5</sub>(Br)<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>OH. ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4, 6-dibromo phenol).  
Fly spray. 112, 226P.

581-591-842-951-961-1011.

Ethanol, 2-(4-cyclohexyl-2, 6-dibromophenoxy)-;  $C_6H_{11}C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dibromo-4-cyclohexyl phenol).

Fly spray. 112, 226P.

581-591-842-951-993-1011.

Ethanol, 2-(2, 6-dibromo-4-*tert*-octylphenoxy)-;  $C_6H_{11}C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dibromo-4-*tert*-octyl phenol).

Fly spray. 112, 230P, 231P.

581-591-842-951-999-1011.

Ethanol, 2-(4-*tert*-amyl-2, 6-dibromophenoxy)-;  $C_6H_{11}C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dibromo-4-*tert*-amyl phenol).

Fly spray. 112, 231P.

581-591-842-951-1001-1003.

1-Propanol, 2-(4-*tert*-butyl-2, 6-dibromophenoxy)-;  $C_6H_5C_6H_4(Br)_2OC_6H_4OH$ . (Hydroxy-propyl ether of 2, 6-dibromo-4-*tert*-butyl phenol).

Fly spray. 112, 230P.

581-591-842-951-1001-1011.

Ethanol, 2-(2-*tert*-butyl-4, 6-dibromophenoxy)-;  $C_6H_5C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-*tert*-butyl-4, 6-dibromo phenol).

Fly spray. 112, 230P.

581-591-842-951-1001-1011.

Ethanol, 2-(4-*tert*-butyl-2, 6-dibromophenoxy)-;  $C_6H_5C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dibromo-4-*tert*-butyl phenol).

Fly spray. 112, 230P, 231P.

581-591-842-952-1001.

1-Butanol, [2-bromo-5-(*p*-bromophenyl)phenoxy]-;  $BrC_6H_4C_6H_4(Br)OC_6H_4OH$ . (Hydroxy-butyl ether of 3-hydroxy-4, 4'-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1003.

1-Propanol, (2, 4-dibromo-6-phenylphenoxy)-;  $C_6H_5C_6H_4(Br)_2OC_6H_4OH$ . (Hydroxy-propyl ether of 2-hydroxy-3, 5-dibromo diphenyl).

Fly spray. 112, 229P.

581-591-842-952-1003.

1-Propanol, [2-bromo-4-(*p*-bromophenyl)phenoxy]-;  $BrC_6H_4C_6H_4(Br)OC_6H_4OH$ . (Hydroxy-propyl ether of 4-hydroxy-3, 4'-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[*m*-(2, 4-dibromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2', 4'-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[*o*-(2, 4-dibromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2' 4'-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[*p*-(2, 4-dibromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2', 4'-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-(2, 4-dibromo-5-phenylphenoxy)-;  $C_6H_5C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4, 6-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-(2, 4-dibromo-6-phenylphenoxy)-;  $C_6H_5C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3, 5-dibromo diphenyl).

Fly spray. 112, 228P, 229P.

581-591-842-952-1011.

Ethanol, 2-[2-bromo-4-(*p*-bromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-4', 5-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[2-bromo-4-(*p*-bromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-4', 5-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[4-bromo-2-(*o*-bromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2', 5-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[4-bromo-3-(*m*-bromophenyl)phenoxy]-;  $BrC_6H_4C_6H_4(Br)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-3', 6-dibromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[4-bromo-2-(2, 4-dibromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4(Br)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2', 4', 5-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[4-bromo-3-(2, 4-dibromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4(Br)OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2', 4', 6-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[5-(*m*-bromophenyl)-2, 4-dibromophenoxy]-;  $BrC_6H_4C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-3', 4, 6-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[4-(*o*-bromophenyl)-4, 6-dibromophenoxy]-;  $Br_2C_6H_3C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2', 3, 5-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[3-(*p*-bromophenyl)-2, 6-dibromophenoxy]-;  $BrC_6H_4C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2', 4', 5-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[3-(*p*-phenyl)-2, 4, 6-tribromophenoxy]-;  $C_6H_5C_6H_4(Br)_3OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2, 4, 6-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[*m*-(2, 4, 5-tribromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2', 4', 5'-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[*o*-(2, 4, 6-tribromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2', 4', 6'-tribromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[2-(4-dibromo-6-(2, 4-dibromophenyl)phenoxy)-;  $Br_2C_6H_3C_6H_4(Br)_2OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2', 3, 4', 5-tetra-bromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[3-(*o*-bromophenyl)-2, 4, 6-tribromophenoxy]-;  $BrC_6H_4C_6H_4(Br)_3OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2, 2', 4, 6-tetrabromo diphenyl).

Fly spray. 112, 228P.

581-591-842-952-1011.

Ethanol, 2-[2, 6-dibromo-4-(2, 4, 6-tribromophenyl)phenoxy]-;  $Br_2C_6H_3C_6H_4(Br)_3OC_6H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2', 3, 4', 5, 6'-penta-bromodiphenyl).

Fly spray. 112, 228P.

581-591-851-951-961-999.

1-Pentanol, (2-chloro-4-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Cl)OC_6H_4OH$ . (Hydroxy-pentyl ether of 2-chloro-4-cyclohexyl phenol).

Fly spray. 112, 226P.

581-591-851-951-961-999.

1-Pentanol, (4-chloro-2-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Cl)OC_6H_4OH$ . (Hydroxy-pentyl ether of 2-cyclohexyl-4-chloro phenol).

Fly spray. 112, 226P.

581-591-851-951-961-1001.

1-Butanol, (4-chloro-2-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Cl)OC_6H_4OH$ . (Hydroxy-butyl ether of 2-cyclohexyl-4-chloro phenol).

Fly spray. 112, 226P.

581-591-851-951-961-1003.

1-Propanol, (2-chloro-4-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Cl)OC_6H_4OH$ . (Hydroxy-propyl ether of 2-chloro-4-cyclohexyl phenol).

Fly spray. 112, 226P.

581-591-851-951-961-1003.

1-Propanol, (2-chloro-6-cyclohexylphenoxy)-;  $C_6H_{11}C_6H_4(Cl)OC_6H_4OH$ . (Hydroxy-propyl ether of 2-chloro-6-cyclohexyl phenol).

Fly spray. 112, 226P.

- C<sub>6</sub>H<sub>5</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 2-cyclohexyl-6-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1003.  
 1-Propanol, (4-chloro-2-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>4</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 2-cyclohexyl-4-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1003.  
 1-Propanol, (4-chloro-3-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>4</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 3-cyclohexyl-4-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1003-1011.  
 Ethanol, 2-(4-*tert*-butyl-6-chloro-2-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-cyclohexyl-4-*tert*-butyl-6-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-[2-(*m*-chlorocyclohexyl)phenoxy]-; ClC<sub>6</sub>H<sub>4</sub>-C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-(3-chloro-cyclohexyl) phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-[2-(*o*-chlorocyclohexyl)phenoxy]-; ClC<sub>6</sub>H<sub>4</sub>-C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-(2-chlorocyclohexyl) phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-[2-(*p*-chlorocyclohexyl)phenoxy]-; ClC<sub>6</sub>H<sub>4</sub>-C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-(4-chlorocyclohexyl) phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-[3-(*p*-chlorocyclohexyl)phenoxy]-; ClC<sub>6</sub>H<sub>4</sub>-C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 3-(4-chlorocyclohexyl) phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-[4-(*o*-chlorocyclohexyl)phenoxy]-; ClC<sub>6</sub>H<sub>4</sub>-C<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 4-(2-chlorocyclohexyl) phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(2-chloro-4-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-chloro-4-cyclohexyl phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(2-chloro-5-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-cyclohexyl-6-chlorophenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(3-chloro-2-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-cyclohexyl-3-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(3-chloro-4-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 3-chloro-4-cyclohexyl phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(5-chloro-2-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-cyclohexyl-4-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(6-chloro-2-cyclohexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-cyclohexyl-6-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(2-*tert*-butyl-6-chlorophenoxy)-; C<sub>6</sub>H<sub>5</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 2-cyclohexyl-6-chloro phenol).  
 Fly spray. 112, 226P.  
 581-591-851-951-961-1011.  
 Ethanol, 2-(2-chloro-4-*tert*-octylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 2-chloro-4-*tert*-octyl phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-993-1003-1021.  
 1-Propanol, (2-chloro-6-methyl-4-*tert*-octylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 2-methyl-4-*tert*-octyl-6-chloro phenol).  
 Fly spray. 112, 231P.  
 581-591-851-951-993-1011.  
 Ethanol, 2-(2-chloro-4-*tert*-octylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-chloro-4-*tert*-octyl phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-993-1011.  
 Ethanol, 2-(2-chloro-4-*tert*-heptylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-chloro-4-*tert*-heptyl phenol).  
 Fly spray. 112, 231P.  
 581-591-851-951-997-1011.  
 Ethanol, 2-(2-chloro-4-*tert*-hexylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-chloro-4-*tert*-hexyl phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-999-1001.  
 1-Pentanol, (4-*tert*-butyl-2-chlorophenoxy)-; C<sub>6</sub>H<sub>5</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-pentyl ether of 2-chloro-4-*tert*-butyl phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-999-1001-1012.  
 Ethanol, 2-(4-*tert*-amyl-2-chloro-6-isopropylphenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)(C<sub>3</sub>H<sub>7</sub>)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-isopropyl-4-*tert*-amyl-6-chloro phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-999-1003.  
 1-Propanol, 4-*tert*-amyl-2-chlorophenoxy-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (Hydroxy-propyl ether of 2-chloro-4-*tert*-amyl phenol).  
 Fly spray. 112, 231P.  
 581-591-851-951-999-1011.  
 Ethanol, 2-(2-*tert*-amyl-4-chlorophenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-*tert*-amyl-4-chloro phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-999-1011.  
 Ethanol, 2-(2-*tert*-amyl-6-chlorophenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of 2-*tert*-amyl-6-chloro phenol).  
 Fly spray. 112, 230P.  
 581-591-851-951-999-1011.  
 Ethanol, 2-(4-*tert*-amyl-2-chlorophenoxy)-; C<sub>6</sub>H<sub>11</sub>-C<sub>6</sub>H<sub>3</sub>(Cl)OC<sub>6</sub>H<sub>4</sub>OH. (β-Hydroxy-ethyl ether of

- $\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-4-chloro phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-5-chlorophenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-5-chloro phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-6-chlorophenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-6-chloro phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1011.  
Ethanol, 2-(3-*tert*-butyl-4-chlorophenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-tertiary-butyl-4-chloro phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1011.  
Ethanol, 2-(4-*tert*-butyl-2-chlorophenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-chloro-4-tertiary-butyl phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-851-1001-1011.  
Ethanol, 2-(4-*tert*-butyl-3-chlorophenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-chloro-4-tertiary-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1011-1021.  
Ethanol, 2-(4-*tert*-butyl-2-chloro-6-methylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{CH}_3)(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4-tertiary-butyl-6-chloro phenol).  
Fly spray. 112, 231P.
- 581-591-851-1001-1002.  
1-Butanol, 4-*tert*-butyl-2-chlorophenoxy-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . (Hydroxy-butyl ether of 2-chloro-4-tertiary-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1002-1011.  
Ethanol, 2-(2, 5-di-*tert*-butyl-4-chlorophenoxy)-;  $(\text{C}_6\text{H}_5)_2\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 5-di-tertiary-butyl-4-chloro phenol).  
Fly spray. 112, 230P.
- 581-591-851-1001-1002-1011.  
Ethanol, 2-(2, 4-di-*tert*-butyl-6-chlorophenoxy)-;  $(\text{C}_6\text{H}_5)_2\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 4-di-tertiary-butyl-6-chloro phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-851-1001-1021.  
Guaisol, 3-chloro-?  $\text{CH}_3\text{OC}_6\text{H}_5(\text{Cl})\text{OH}$ . (Guaisols, m-chloro-).  
T as mothproofing agent. 409P, 1175.
- 581-591-851-952-993-1011-1021.  
Ethanol, 2-(2-benzyl-6-chloro-4-*tert*-octylphenoxy)-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_5(\text{Cl})(\text{CH}_2\text{C}_8\text{H}_5)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-benzyl-4-tertiary-octyl-6-chloro phenol).  
Fly spray. 112, 230P.
- 581-591-851-952-999-1011.  
Ethanol, 2-(4-chloro-2-isoamyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})(\text{C}_6\text{H}_{11})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-isoamyl-5-chloro diphenyl).  
Fly spray. 112, 229P.
- 581-591-851-952-1001-1011.  
Ethanol, 2-(2-*sec*-butyl-6-chloro-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{C}_4\text{H}_9)(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-secondary-butyl-5-chloro diphenyl).  
Fly spray. 112, 229P.
- 581-591-851-952-1001-1011.  
Ethanol, 2-(4-*tert*-butyl-2-chloro-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})(\text{C}_4\text{H}_9)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-chloro-5-tertiary-butyl diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-851-952-1003.  
1-Propanol, (2-chloro-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 4-hydroxy-3-chloro diphenyl).  
Fly spray. 112, 229P.
- 581-591-851-952-1003.  
1-Propanol, (2-chloro-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-3-chloro diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-851-952-1003-1021.  
1-Propanol, (4-chloro-6-phenyl-*o*-toloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{CH}_3)(\text{Cl})\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-3-methyl-5-chloro diphenyl).  
Fly spray. 112, 229P.
- 581-591-851-952-1004.  
1-Propanol, (2-chloro-6-phenyl-4-*n*-propylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})(\text{C}_3\text{H}_7)\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-3-chloro-5-normal-propyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-851-952-1011.  
Ethanol, 2-[2-(*m*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[2-(*o*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[2-(*p*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[3-(*m*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-3'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[3-(*o*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[3-(*p*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[4-(*o*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-[4-(*p*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-4'-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-(2-chloro-3-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-(2-chloro-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-5-chloro diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-851-952-1011.  
Ethanol, 2-(2-chloro-5-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-(2-chloro-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-chloro diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-851-952-1011.  
Ethanol, 2-(3-chloro-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-6-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-(3-chloro-5-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ .

- $\text{H}_2(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-5-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-(4-chloro-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-chloro diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-851-952-1011.  
Ethanol, 2-(4-chloro-3-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-6-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011.  
Ethanol, 2-(5-chloro-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4-chloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-952-1011-1021.  
Ethanol, 2-(2-chloro-4-methyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{Cl})(\text{CH}_3)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-chloro-5-methyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-953-1001-1021.  
1-Butanol, (2-benzyl-6-chloro-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_2\text{H}_4\text{OH}$ . (Hydroxy-butyl ether of 4-hydroxy-3-chloro-5-benzyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-953-1003-1021.  
1-Propanol, [4-benzyl-3-(*p*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_2\text{H}_4\text{OH}$ . (Hydroxy-propyl ether of 3-hydroxy-4'-chloro-6-benzyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-953-1011-1021.  
Ethanol, 2-(2-benzyl-6-chloro-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-chloro-5-benzyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-851-954-1003-1021-1193-1325.  
Phosphonium hydroxide, (chlorothymoxy) triphenyl-  
T as mothproofing agent. 441P, 1179.
- 581-591-851-952-1011.  
Ethanol, 2-(2-chloro-4-cyclohexylcyclohexyloxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl})\text{OC}_6\text{H}_{11}\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-cyclohexyl-6-chlorocyclohexanol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-999.  
1-Pentanol, (2, 6-dichloro-4-cyclohexylphenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_6\text{H}_{11}\text{OH}$ . (Hydroxy-pentyl ether of 2, 6-dichloro-4-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1001.  
1-Butanol, (4-cyclohexyl-2, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_4\text{H}_9\text{OH}$ . (Hydroxy-butyl ether of 2, 6-dichloro-4-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1001.  
1-Butanol, (2-cyclohexyl-4, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_4\text{H}_9\text{OH}$ . (Hydroxy-butyl ether of 2-cyclohexyl-4, 6-dichloro phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1003.  
1-Propanol, (4-cyclohexyl-2, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 2, 6-dichloro-4-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1003.  
1-Propanol, (2-cyclohexyl-4, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 2, 4-dichloro-6-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1011.  
Ethanol, 2-(4-cyclohexyl-2, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dichloro-4-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1011.  
Ethanol, 2-[2-chloro-4-(2-chlorocyclohexyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4(\text{Cl})(\text{C}_6\text{H}_{10}\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-(4-chloro-cyclo-hexyl)-4-chloro phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1011.  
Ethanol, 2-[2-chloro-4-(2-chlorocyclohexyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-(2-chloro-cyclohexyl)-6-chloro phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1011.  
Fly spray. 112, 231P, 233P.
- 581-591-852-951-961-1011.  
Ethanol, 2-(2-cyclohexyl-4, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 4-dichloro-6-cyclohexyl phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-961-1011.  
Ethanol, 2-(2-cyclohexyl-3, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-3, 6-dichloro phenol).  
Fly spray. 112, 226P.
- 581-591-852-951-993-1003.  
1-Propanol, 3-(2, 6-dichloro-4-*tert*-octylphenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_8\text{H}_{17}\text{OH}$ . (Hydroxy-propyl ether of 2, 6-dichloro-4-*tert*-octyl phenol).  
Fly spray. 112, 231P.
- 581-591-852-951-995-1011.  
Ethanol, 2-(2, 6-dichloro-4-*tert*-heptylphenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_7\text{H}_{15}\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dichloro-4-*tert*-heptyl phenol).  
Fly spray. 112, 231P.
- 581-591-852-951-997-1011.  
Ethanol, 2-(2, 6-dichloro-4-*tert*-hexylphenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_6\text{H}_{13}\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dichloro-4-*tert*-hexyl phenol).  
Fly spray. 112, 230P.
- 581-591-852-951-999-1003.  
1-Propanol, 3-(4-*tert*-amyl-2, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_5\text{H}_{11}\text{OH}$ . (Hydroxy-propyl ether of 2, 6-dichloro-4-*tert*-amyl phenol).  
Fly spray. 112, 230P.
- 581-591-852-951-999-1011.  
Ethanol, 2-(4-*tert*-amyl-2, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_5\text{H}_{11}\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dichloro-4-*tert*-amyl phenol).  
Fly spray. 112, 231P.
- 581-591-852-951-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-4, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_4\text{H}_9\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-*tert*-butyl-4, 6-dichloro phenol).  
Fly spray. 112, 230P.
- 581-591-852-951-1001-1011.  
Ethanol, 2-(4-*tert*-butyl-2, 6-dichlorophenoxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_4\text{H}_9\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 6-dichloro-4-*tert*-butyl phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-852-952-999.  
1-Pentanol, 5-(3, 5-dichloro-2-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_5\text{H}_{11}\text{OH}$ . (Hydroxy-pentyl ether of 2-hydroxy-3, 5-dichloro diphenyl; pentanol, (2, 4-dichloro-6-phenylphenoxy)-).  
Fly spray. 112, 228P.
- 581-591-852-953-999.  
1-Pentanol, 5-(3, 5-dichloro-4-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_5\text{H}_{11}\text{OH}$ . (Pentanol, (2, 6-dichloro-4-phenylphenoxy)-; hydroxy-pentyl ether of 4-hydroxy-3, 5-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1001.  
1-Butanol, 4-(3, 5-dichloro-2-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_4\text{H}_9\text{OH}$ . (Butanol, (2, 4-dichloro-6-phenylphenoxy)-; hydroxy-butyl ether of 2-hydroxy-3, 5-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1003.  
1-Propanol, 3-(3, 5-dichloro-4-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_3\text{H}_7\text{OH}$ . (Propanol, (2, 4-dichloro-6-phenylphenoxy)-; hydroxy-propyl ether of 4-hydroxy-3, 5-dichloro diphenyl).  
Fly spray. 112, 229P.
- 581-591-852-952-1003.  
1-Propanol, 3-(3, 5-dichloro-2-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_3\text{H}_7\text{OH}$ . (Propanol, (2, 4-dichloro-6-phenylphenoxy)-; hydroxy-propyl ether of 2-hydroxy-3, 5-dichloro diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-852-952-1011.  
Ethanol, 2-(3, 5-dichloro-2-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-(2, 4-dichloro-6-phenylphenoxy)-;  $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3, 5-dichloro diphenyl).  
46% T houseflies. 112, 228P, 229P.
- 581-591-852-952-1011.  
Ethanol, 2-(3, 5-dichloro-4-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-(2, 6-dichloro-4-

- phenylphenoxy);  $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3, 5-dichloro diphenyl).  
Fly spray. 112, 228P, 229P.
- 581-591-852-952-1011.  
Ethanol, 2-(3, 6-dichloro-2-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3, 6-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 4'-dichloro-3-biphenyloxy)-;  $\text{Cl}_2\text{-C}_6\text{H}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[*m*-(2, 4-dichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-3, 6-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 4'-dichloro-2-biphenyloxy)-;  $\text{Cl}_2\text{-C}_6\text{H}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[*o*-(2, 4-dichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-2', 4'-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 4'-dichloro-4-biphenyloxy)-;  $\text{Cl}_2\text{-C}_6\text{H}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[*p*-(2, 4-dichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-2', 4'-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(3', 4'-dichloro-2-biphenyloxy)-;  $\text{Cl}_2\text{-C}_6\text{H}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[*o*-(3, 4-dichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-3', 4'-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 3-dichloro-4-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2-chloro-4-(*o*-chlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-2', 3-dichloro diphenyl).  
Fly spray. 112, 226P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 4-dichloro-2-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[5-chloro-2-(*o*-chlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-2', 4-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(3', 4'-dichloro-4-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2-chloro-4-(*p*-chlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-3, 4'-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2, 4'-dichloro-2-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[5-chloro-2-(*p*-chlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-4, 4'-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(4, 4'-dichloro-3-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2-chloro-5-(*p*-chlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 3-hydroxy-4, 4'-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(4, 6-dichloro-3-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_3(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-(2, 4-dichloro-5-phenylphenoxy)-;  $\beta$ -hydroxy-ethyl ether of 3-hydroxy-4, 6-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011-1021.  
Ethanol, 2-[4-chloro-5-(*p*-chlorophenyl)-*o*-toloxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})(\text{CH}_3)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4-methyl-4', 6-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1012.  
Ethanol, 2-(3, 5-dichloro-4'-ethyl-4-biphenyloxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_3\text{C}_6\text{H}_4(\text{Cl}_2)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[3, 6-dichloro-4-(*p*-ethylphenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-3, 5-dichloro-4'-ethyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011-1021.  
Ethanol, 2-(3, 4'-dichloro-5-benzyl-4-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2-benzyl-4-(*p*-chlorophenyl)-6-chlorophenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-3-benzyl-4', 5-dichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 3, 5-trichloro-2-biphenyloxy)-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl}_3)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2-(*p*-chlorophenyl)-4, 6-dichlorophenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-2', 3, 5-trichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 4', 6'-trichloro-2-biphenyloxy)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[*o*-(2, 4, 6-trichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-2', 4', 6'-trichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-852-952-1011.  
Ethanol, 2-(2', 4', 6'-trichloro-4-biphenyloxy)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[5-(*m*-chlorophenyl)-2, 4-dichlorophenoxy]-;  $\beta$ -hydroxy-ethyl ether of 3-hydroxy-3', 4, 6-trichloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-854-952-1011.  
Ethanol, 2-(2', 3, 4', 5-tetrachloro-4-biphenyloxy)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl}_4)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2, 6-dichloro-4-(2, 4-dichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-2', 3, 4', 5-tetrachloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-854-952-1011.  
Ethanol, 2-(2', 3, 4', 5-tetrachloro-2-biphenyloxy)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl}_4)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2, 3-dichloro-4-(2, 4-dichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-2', 4', 5, 6-tetrachloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-854-952-1011.  
Ethanol, 2-[2', 4', 6'-tetrachloro-3-biphenyloxy]-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl}_4)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[4-chloro-3-(2, 4, 6-trichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 3-hydroxy-2', 4', 6, 6'-tetrachlorodiphenyl).  
Fly spray. 112, 228P.
- 581-591-854-952-1011.  
Ethanol, 2-[2', 4', 5, 6'-tetrachloro-2-biphenyloxy]-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl}_4)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[4-chloro-2-(2, 4, 6-trichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 2-hydroxy-2', 4', 5, 6'-tetrachloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-854-952-1011.  
Ethanol, 2-[2', 2', 4, 6-tetrachloro-3-biphenyloxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl}_4)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[3-(*o*-chlorophenyl)-2, 4, 6-trichlorophenoxy]-4  $\beta$ -hydroxy-ethyl ether of 3-hydroxy-2, 2', 4, 6-tetrachloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-855-952-1011.  
Ethanol, 2-(2', 3, 4', 5, 6'-pentachloro-4-biphenyloxy)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl}_5)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2, 6-dichloro-4-(2, 4, 6-trichlorophenyl)phenoxy]-;  $\beta$ -hydroxy-ethyl ether of 4-hydroxy-2', 3, 4', 5, 6'-pentachloro diphenyl).  
Fly spray. 112, 228P.
- 581-591-855-952-1011.  
Ethanol, 2-(2', 4, 4', 6, 6'-pentachloro-3-biphenyloxy)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl}_5)\text{OC}_2\text{H}_4\text{OH}$ . (Ethanol, 2-[2, 4-dichloro-5-(2, 4, 6-trichlorophenyl)phenoxy]-;





- 581-591-951-993-1011.  
Ethanol, 2-[4-(1-phenylcyclohexyl)cyclohexyloxy]-;  
 $\text{C}_{26}\text{H}_{40}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-(1-phenylcyclohexyl)cyclohexanol).  
Fly spray. 112, 236P.
- 581-591-951-998-999-1011-1021.  
Ethanol, 2-(2-*tert*-amyl-6-cyclopentyl-4-methylphenoxy)-;  $\text{C}_{26}\text{H}_{40}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-cyclopentyl-4-methyl-6-*tert*-amyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-998-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-4-cyclopentylphenoxy)-;  
 $\text{C}_{26}\text{H}_{40}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-*tert*-butyl-4-cyclopentyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-998-999.  
1-Pentanol, *p*-*tert*-octylphenoxy-;  $\text{C}_{26}\text{H}_{44}\text{O}_2$  (Hydroxy-pentyl ether of 4-*tert*-octyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-998-999-1011.  
Ethanol, 2-(4-*tert*-amyl-2-octylphenoxy)-;  $\text{C}_{26}\text{H}_{40}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-octyl-4-*tert*-amyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-998-1001.  
1-Butanol, *p*-*tert*-octylphenoxy-;  $\text{C}_{26}\text{H}_{44}\text{O}_2$  (Hydroxy-butyl ether of 4-*tert*-octyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-998-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-4-*tert*-octylphenoxy)-;  $\text{C}_{26}\text{H}_{40}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-*tert*-butyl-4-*tert*-octyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-998-1003.  
1-Propanol, *p*-*tert*-octylphenoxy-;  $\text{C}_{26}\text{H}_{44}\text{O}_2$  (Hydroxy-propyl ether of 4-*tert*-octyl phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-951-998-1003-1011.  
Ethanol, 2-(4-*tert*-octyl-2-*n*-propylphenoxy)-;  $\text{C}_{26}\text{H}_{44}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-*n*-propyl-4-*tert*-octyl phenol).  
Fly spray. 112, 231P.
- 581-591-951-998-1003-1022.  
1-Propanol, (2, 6-dimethyl-4-*tert*-octylphenoxy)-;  
 $(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{C}_8\text{H}_{17})\text{OC}_3\text{H}_7\text{OH}$ . (Hydroxy-propyl ether of 2, 6-dimethyl-4-*tert*-octyl phenol).  
Fly spray. 112, 231P.
- 581-591-951-998-1004-1011.  
Ethanol, 2-(2, 5-diisopropyl-4-*tert*-octylphenoxy)-;  
 $(\text{C}_3\text{H}_7)_2\text{C}_6\text{H}_3(\text{C}_8\text{H}_{17})\text{OC}_2\text{H}_5\text{OH}$ . (β-Hydroxy-ethyl ether of 2, 5-diisopropyl-4-*tert*-octyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-998-1011.  
Ethanol, 2-(*o*-*tert*-octylphenoxy)-;  $\text{C}_{26}\text{H}_{44}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-*tert*-octyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-998-1011.  
Ethanol, 2-(*p*-*tert*-octylphenoxy)-;  $\text{C}_{26}\text{H}_{44}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-*tert*-octyl phenol).  
19.7% T houseflies at 5%. 112, 230P, 231P.
- 581-591-951-998-1011-1021.  
Ethanol, 2-(2-methyl-4-*tert*-octylphenoxy)-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-methyl-4-*tert*-octyl phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-951-998-1003.  
1-Propanol, *p*-*tert*-heptylphenoxy-;  $\text{C}_{27}\text{H}_{46}\text{O}_2$  (Hydroxy-propyl ether of 4-*tert*-heptyl phenol).  
Fly spray. 112, 231P.
- 581-591-951-998-1011.  
Ethanol, 2-(*p*-heptylphenoxy)-;  $\text{C}_{27}\text{H}_{46}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-heptyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-998-1011.  
Ethanol, 2-(*p*-*tert*-heptylphenoxy)-;  $\text{C}_{27}\text{H}_{46}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-*tert*-heptyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-997-1003.  
1-Propanol, *p*-*tert*-hexylphenoxy-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (Hydroxy-propyl ether of 4-*tert*-hexyl phenol).  
Fly spray. 112, 230P, 231P.
- 581-591-951-997-1011.  
Ethanol, 2-(4-*n*-hexylphenoxy)-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-*n*-hexyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-997-1011.  
Ethanol, 2-(*p*-*sec*-hexylphenoxy)-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-*sec*-hexyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-997-1011.  
Ethanol, 2-(*m*-*tert*-hexylphenoxy)-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (β-Hydroxy-ethyl ether of 3-*tert*-hexyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-997-1011.  
Ethanol, 2-(*o*-*tert*-hexylphenoxy)-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-*tert*-hexyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-997-1011.  
Ethanol, 2-(*p*-*tert*-hexylphenoxy)-;  $\text{C}_{26}\text{H}_{42}\text{O}_2$  (β-Hydroxy-ethyl ether of 4-*tert*-hexyl phenol).  
Fly spray. 112, 230P, 231P, 234P.
- 581-591-951-999-1001.  
1-Butanol, *p*-*tert*-amylphenoxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-butyl ether of 4-*tert*-amyl phenol).  
Fly spray. 112, 230P, 232P.
- 581-591-951-999-1001.  
1-Pentanol, *p*-*tert*-butylphenoxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-pentyl ether of 4-*tert*-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1001-1011.  
Ethanol, 2-(3-*tert*-amyl-4-*tert*-butylphenoxy)-;  $\text{C}_{26}\text{H}_{40}\text{O}_2$  (β-Hydroxy-ethyl ether of 2-*tert*-amyl-4-*tert*-butyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-999-1002.  
1-Pentanol, 2, 4-di-*tert*-butylphenoxy-;  $(\text{C}_4\text{H}_9)_2\text{C}_6\text{H}_2\text{OC}_5\text{H}_{11}\text{OH}$ . (Hydroxy-pentyl ether of 2, 4-di-*tert*-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1003.  
1-Propanol, *m*-*tert*-amylphenoxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 3-*tert*-amyl phenol).  
Fly spray. 112, 230P, 232P.
- 581-591-951-999-1003.  
1-Propanol, *o*-*tert*-amylphenoxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 2-*tert*-amyl phenol).  
Fly spray. 112, 230P, 232P.
- 581-591-951-999-1003.  
1-Propanol, *p*-*tert*-amylphenoxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 4-*tert*-amyl phenol).  
Fly spray. 112, 230P, 231P, 232P.
- 581-591-951-999-1003-1011.  
1-Propanol, (2-*tert*-amyl-6-ethylphenoxy)-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 2-*tert*-amyl-6-ethyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-999-1003-1012.  
1-Propanol, 4-*tert*-amyl-2, 6-diethylphenoxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 2, 6-diethyl-4-*tert*-amyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1003-1021.  
1-Propanol, 4-*tert*-amyl-*o*-toloxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 2-methyl-4-*tert*-amyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-999-1003-1021.  
1-Propanol, 5-*tert*-amyl-*o*-toloxy-;  $\text{C}_{25}\text{H}_{40}\text{O}_2$  (Hydroxy-propyl ether of 2-methyl-5-*tert*-amyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1003-1022.  
1-Propanol, (2-*tert*-amyl-4, 6-dimethylphenoxy)-;



- $C_6H_{11}C_6H_5(OH)_2OC_6H_5OH$ . (Hydroxy-propyl ether of 2, 4-dimethyl-6-tertiary-amyl phenol).  
Fly spray. 112, 233P.
- 581-591-951-999-1004.  
1-Propanol, 4-*tert*-amyl-2-*n*-propylphenoxy-;  $C_8H_{11}C_6H_5(C_6H_5)_2OC_6H_5OH$ . (Hydroxy-propyl ether of 2-*n*-propyl-4-tertiary-amyl phenol).  
Fly spray. 112, 231P.
- 581-591-951-999-1011.  
Ethanol, 2-(*m-tert*-amylphenoxy)-;  $C_8H_{11}C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-tertiary-amyl phenol).  
Fly spray. 112, 230P, 232P.
- 581-591-951-999-1011.  
Ethanol, 2-(*o-tert*-amylphenoxy)-;  $C_8H_{11}C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-amyl phenol).  
Fly spray. 112, 230P, 232P.
- 581-591-951-999-1011.  
Ethanol, 2-(*p-n*-amylphenoxy)-;  $C_8H_{11}C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-*n*-amyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-999-1011.  
Ethanol, 2-(*p-tert*-amylphenoxy)-;  $C_8H_{11}C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-tertiary-amyl phenol).  
45% T houseflies at 3%. 112, 230P, 231P, 232P, 234P.
- 581-591-951-999-1011-1021.  
Ethanol, 2-(2-*tert*-amyl-3-methylphenoxy)-;  $C_8H_{11}C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-amyl-3-methyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1011-1021.  
Ethanol, 2-(2-*tert*-amyl-4-methylphenoxy)-;  $C_8H_{11}C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-amyl-4-methyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1011-1021.  
Ethanol, 2-(5-*tert*-amyl-2-methylphenoxy)-;  $C_8H_{11}C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-5-tertiary-amyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-999-1012.  
Ethanol, 2-(4-*tert*-amyl-2-ethylphenoxy)-;  $C_8H_{11}C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-ethyl-4-tertiary-amyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-999-1013.  
Ethanol, 2-(2-*tert*-amyl-4, 6-diethylphenoxy)-;  $C_8H_{11}C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 4-diethyl-6-tertiary-amyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1000.  
1-Pentanol, *p-tert*-amylphenoxy-;  $C_8H_{11}C_6H_5OC_6H_5OH$ . (Hydroxy-pentyl ether of 4-tertiary-amyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1000-1003-1021.  
1-Propanol, (2, 4-di-*tert*-amyl-6-methylphenoxy)-;  $(C_8H_{11})_2C_6H_5(C_6H_5)_2OC_6H_5OH$ . (Hydroxy-propyl ether of 2, 4-di-tertiary-amyl-6-methyl phenol).  
Fly spray. 112, 231P.
- 581-591-951-1000-1011.  
Ethanol, 2-(2, 4-di-*tert*-amylphenoxy)-;  $(C_8H_{11})_2C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2, 4-di-tertiary-amyl phenol).  
Fly spray. 112, 230P, 231P, 233P.
- 581-591-951-1000-1011.  
Ethanol, 2-(2, 4-di-*sec*-amyl-6-phenylphenoxy)-;  $(C_8H_{11})_2C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3, 5-di-*n*-amyl diphenyl).  
Fly spray. 112, 230P.
- 581-591-951-1000-1011.  
Ethanol, 2-(2, 6-di-*n*-amyl-4-phenylphenoxy)-;  $C_8H_5C_6H_5(C_8H_{11})_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3, 5-di-*n*-amyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-951-1001-1003.  
1-Propanol, *p-sec*-butylphenoxy-;  $C_4H_9C_6H_5OC_6H_5OH$ . (Hydroxy-propyl ether of 4-secondary-butyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-1001-1003.  
1-Propanol, *m-tert*-butylphenoxy-;  $C_4H_9C_6H_5OC_6H_5OH$ . (Hydroxy-propyl ether of 3-tertiary-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1001-1003.  
1-Propanol, *o-tert*-butylphenoxy-;  $C_4H_9C_6H_5OC_6H_5OH$ . (Hydroxy-propyl ether of 2-tertiary-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1001-1003-1021.  
1-Propanol, (4-*tert*-butyl-*o*-toloxy)-;  $C_4H_9C_6H_5(C_6H_5)_2OC_6H_5OH$ . (Hydroxy-propyl ether of 2-methyl-4-tertiary-butyl phenol).  
Fly spray. 112, 230P, 233P.
- 581-591-951-1001-1011.  
Ethanol, 2-(*p*-butylphenoxy)-;  $C_4H_9C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-butyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-1001-1011.  
Ethanol, 2-(4-isobutylphenoxy)-;  $C_4H_9C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-isobutyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-1001-1011.  
Ethanol, 2-(*p-sec*-butylphenoxy)-;  $C_4H_9C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-secondary-butyl phenol).  
50% T houseflies at 3%. 112, 234P.
- 581-591-951-1001-1011.  
Ethanol, 2-(*m-tert*-butylphenoxy)-;  $C_4H_9C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-tertiary-butyl phenol).  
Fly spray. 112, 230P, 232P.
- 581-591-951-1001-1011.  
Ethanol, 2-(*o-tert*-butylphenoxy)-;  $C_4H_9C_6H_5OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl phenol).  
Fly spray. 112, 230P, 233P.
- 581-591-951-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-5-methylphenoxy)-;  $C_4H_9C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-5-methyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1001-1011-1021.  
Ethanol, 2-(2-*tert*-butyl-6-methylphenoxy)-;  $C_4H_9C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-6-methyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1001-1011-1022.  
Ethanol, 2-(2-*tert*-butyl-4, 6-dimethylphenoxy)-;  $C_4H_9C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,4-dimethyl-6-tertiary-butyl phenol).  
Fly spray. 112, 230P.
- 581-591-951-1001-1012.  
1-Butanol, 2,4-diethylphenoxy-;  $(C_4H_9)_2C_6H_5OC_6H_5OH$ . (Hydroxy-butyl ether of 2,4-diethyl phenol).  
Fly spray. 112, 234P.
- 581-591-951-1001-1012.  
Ethanol, 2-(2-*tert*-butyl-4-ethylphenoxy)-;  $C_4H_9C_6H_5(C_6H_5)_2OC_6H_5OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-4-ethyl phenol).  
Fly spray. 112, 230P.

581-591-951-1001-1013.

Ethanol, 2-(4-*tert*-butyl-2,6-diethylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,6-diethyl-4-*tert*-butyl phenol).

Fly spray. 112, 233P.

581-591-951-1002.

1-Butanol, *p*-*sec*-butylphenoxy;  $C_4H_9C_6H_4OC_2H_5OH$ . (Hydroxy-butyl ether of 4-*sec*-butyl phenol).

Fly spray. 112, 234P.

581-591-951-1002.

1-Butanol, *o*-*tert*-butylphenoxy;  $C_4H_9C_6H_4OC_2H_5OH$ . (Hydroxy-butyl ether of 2-*tert*-butyl phenol).

Fly spray. 112, 230P.

581-591-951-1002.

1-Butanol, *p*-*tert*-butylphenoxy;  $C_4H_9C_6H_4OC_2H_5OH$ . (Hydroxy-butyl ether of 4-*tert*-butyl phenol).

Fly spray. 112, 230P, 232P.

581-591-951-1002-1003.

1-Propanol, (2,6-di-*tert*-butylphenoxy)-;  $(C_6H_5)_2C_6H_4OC_3H_7OH$ . (Hydroxy-propyl ether of 2,6-di-*tert*-butyl phenol).

Fly spray. 112, 233P.

581-591-951-1002-1003-1021.

1-Propanol, (4,6-di-*tert*-butyl-*o*-toloxy)-;  $(C_6H_5)_2C_6H_4(CH_3)OC_3H_7OH$ . (Hydroxy-propyl ether of 2,4-di-*tert*-butyl-6-methyl phenol; hydroxy-propyl ether of 2-methyl-4,6-*tert*-butyl phenol).

Fly spray. 112, 231P, 233P.

581-591-951-1002-1011.

Ethanol, 2-(2,4-di-*tert*-butylphenoxy)-;  $C_4H_9C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,4-di-*tert*-butyl phenol).

Fly spray. 112, 230P, 233P.

581-591-951-1002-1011.

Ethanol, 2-(2,6-di-*tert*-butylphenoxy)-;  $(C_6H_5)_2C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,6-di-*tert*-butyl phenol).

Fly spray. 112, 230P.

581-591-951-1002-1011.

Ethanol, 2-(2-*tert*-butyl-6-isobutylphenoxy)-;  $(C_6H_5)_2C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-*tert*-butyl-6-isobutyl phenol).

Fly spray. 112, 233P.

581-591-951-1002-1011.

Ethanol, 2-(2-*sec*-butyl-4-*tert*-butylphenoxy)-;  $(C_6H_5)_2C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-*sec*-butyl-4-*tert*-butyl phenol).

Fly spray. 112, 230P.

581-591-951-1002-1011-1021.

Ethanol, 2-(2,4-di-*tert*-butyl-6-methylphenoxy)-;  $(C_6H_5)_2C_6H_4(CH_3)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4,6-di-*tert*-butyl phenol).

Fly spray. 112, 231P, 233P.

581-591-951-1002-1021.

1-Butanol, 5-*tert*-butyl-2-methylphenoxy;  $C_4H_9C_6H_4(C_2H_5)OC_2H_4OH$ . (Hydroxy-butyl ether of 2-methyl-5-*tert*-butyl phenol).

Fly spray. 112, 230P.

581-591-951-1003-1011-1021.

Ethanol, 2-(4-*tert*-butyl-2-methylphenoxy)-;  $C_4H_9C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4-*tert*-butyl phenol).

42% T houseflies at 3%. 112, 230P, 231P, 233P, 234P.

581-591-951-1003-1012.

Ethanol, 2-(2-ethyl-4-isopropylphenoxy)-;  $C_4H_9C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-ethyl-4-isopropyl phenol).

Fly spray. 112, 234P.

581-591-951-1003-1012.

1-Propanol, (2,4-diethylphenoxy)-;  $(C_2H_5)_2C_6H_4OC_3H_7OH$ . (Hydroxy-propyl ether of 2,4-diethyl phenol).

Fly spray. 112, 234P.

581-591-951-1003-1021-1030.

Eugenol;  $HOC_6H_4(OCH_3)CH_2CH:CH_3$ .

T *Leptinotarsa decemlineata*; NT oriental peach moth as attractant. 508, 1009.

581-591-951-1003-1021-1030.

Guaiacol, propenyl-, CU;  $HOC_6H_4(OCH_3)CH:CHCH_3$ .

NT *Bombys mori* larvae. 559.

581-591-951-1004-1011.

Ethanol, 2-(2,4-diisopropylphenoxy)-;  $(C_3H_7)_2C_6H_4OC_2H_4OH$ .

$H_5OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,4-diisopropyl phenol).

Fly spray. 112, 234P.

581-591-951-1004-1011.

Ethanol, 2-(diisopropylphenoxy)-;  $CU; (C_3H_7)_2C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of diisopropyl phenol).

Fly spray. 112, 234P.

581-591-951-1004-1021.

1-Propanol, 4-isopropyl-*o*-toloxy;  $C_6H_7C_6H_4(C_3H_7)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-methyl-4-isopropyl phenol).

Fly spray. 112, 234P.

581-591-951-1011.

Phenol, *m*-ethoxy-;  $C_6H_5OC_2H_4OH$ . (Phenetol, 2-hydroxy-; resorcinol monoethyl ether).

T as mothproofing agent; NT screwworms. 156, 870P, 1178.

581-591-951-1011.

Ethanol, 2-phenoxy-;  $C_6H_5OC_2H_4OH$ . (Ethylene glycol monophenyl ether). 591P.

581-591-951-1012.

Ethanol, 2-(2,4-diethylphenoxy)-;  $(C_2H_5)_2C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,4-diethyl phenol).

60% T houseflies at 3%. 112, 234P.

581-591-951-1021.

Guaiacol;  $CH_3OC_6H_4OH$ . (*o*-Methoxyphenol; pyrocatechol monomethyl ether; *o*-hydroxyanisole).

100% T *Aphis rumicis* at 5.0%; T clothes moths. 94P, 404P, 405P, 1178, 1362P, 1376.

581-591-951-1021.

Phenol, *p*-methoxy-;  $CH_3OC_6H_4OH$ . (Hydroquinone monomethyl ether).

T screwworms at 0.33-0.67%. 156.

581-591-951-1022.

Anisyl alcohol;  $CH_3OC_6H_4CH_2OH$ . (*p*-Methoxybenzyl alcohol; anisylalcohol).

T screwworms at 0.17-0.33%; NT wireworms. 156, 846.

581-591-951-1027.

Ethers, 4-*tert*-alkylphenyl hydroxyalkyl-;  $XC_6H_4(Y)OCH_2CH_2OH$ . (Hydroxy-alkyl ethers of 4-*tert*-alkyl phenols). R is hydrogen, the other R is hydrogen or a methyl radical, X is a tertiary alkyl group containing not more than 5 carbons, one Y is halogen, and the other Y is halogen or hydrogen.

Fly spray. 112, 231P.

581-591-951-1027.

Ethers, *tert*-alkylphenyl hydroxyalkyl-;  $XC_6H_4(X)OCH_2CH_2OH$ . (Hydroxyalkyl ethers). R is hydrogen, the other R is either a methyl radical or hydrogen, one X is a tertiary-alkyl radical containing not more than 5 carbons, another X is either an alkyl or a cyclo-alkyl radical, and the third X is hydrogen or an alkyl or cyclo-alkyl radical.

Fly spray. 112, 233P.

581-591-951-1027.

Ethers, *tert*-alkylphenyl hydroxyalkyl-;  $(CH_3)_nC_nH_{2n+1}C_6H_4OROH$ . (Hydroxy alkyl ether of *tert*-alkyl phenols). R is an alkylene group containing 2 to 4 carbon atoms, and n is an integer not greater than 2.

Fly spray. 112, 232P.

581-591-951-1027.

Ethers, alkylphenyl hydroxyalkyl-;  $XC_6H_4(Y)OROH$ . (Hydroxy-alkyl ethers of alkyl phenols). R is an alkyl residue, containing not more than 4 carbon atoms, X is an alkyl group, and Y is an alkyl group or hydrogen, the sum of the carbon atoms in the alkyl substituents on the ring being from 4 to 7.

Fly spray. 112, 227P, 234P.

581-591-951-1027.

Alcohols, substituted phenoxy-. Hydroxyalkyl ethers of a tertiary alkyl phenol in which the tertiary alkyl group contains from 4 to 6 carbon atoms, the benzene ring contains at least one additional substituent which is non-reactive with acids and alkalis in the esterification reaction, and the alkyl residue of the hydroxyalkyl radical contains at least 2 carbon atoms.

Fly spray. 112, 230P.

581-591-951-951-1003.

1-Propanol, 4-(1-phenylcyclohexyl) phenoxy-;  $C_6H_5C_6H_4OC_3H_7OH$ .

- $\text{H}_5\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 4-(1-phenyl-cyclohexyl) phenol).  
Fly spray. 112, 226P.
- 581-591-952-961-1011-1021.  
Ethanol, 2-(4-benzyl-2-cyclohexylphenoxy)-;  $\text{C}_6\text{H}_5\text{-CH}_2\text{C}_6\text{H}_4(\text{C}_6\text{H}_{11})\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4-benzyl phenol).  
Fly spray. 112, 226P.
- 581-591-952-993-1003.  
1-Propanol, (4-*tert*-octyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-5-tertiary-octyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-993-1003-1021.  
1-Propanol, (6-*tert*-octyl-4-phenyl-o-toloxyl)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_3(\text{C}_6\text{H}_5)(\text{CH}_3)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 4-hydroxy-3-methyl-6-tertiary-octyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-993-1011.  
Ethanol, 2-(2-*tert*-octyl-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-5-tertiary-octyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-993-1011.  
Ethanol, 2-(4-*tert*-octyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-tertiary-octyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-995-1011.  
Ethanol, 2(4-*iso*heptyl-2-phenylphenoxy)-;  $\text{C}_7\text{H}_{15}\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-*iso*heptyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-995-1011.  
Ethanol, 2-[*p*-(*p*-*tert*-heptylphenyl)phenoxy]-;  $\text{C}_7\text{H}_{15}\text{C}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-4'-tertiary-heptyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-995-1011-1021.  
Ethanol, 2-(2-benzyl-5-*tert*-heptylphenoxy)-;  $\text{C}_7\text{H}_{15}\text{C}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-tertiary-heptyl-6-benzyl phenol).  
Fly spray. 112, 229P.
- 581-591-952-997-1003.  
1-Propanol, (4-*iso*hexyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_{13}\text{C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-5-*iso*hexyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-997-1011.  
Ethanol, 2-(4-*iso*hexyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_{13}\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-*iso*hexyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-997-1011.  
Ethanol, 2-[*m*-(*p*-*iso*hexylphenyl)phenoxy]-;  $\text{C}_6\text{H}_{13}\text{-C}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4'-*iso*hexyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-997-1011-1021.  
Ethanol, 2-(2-benzyl-4-*tert*-hexylphenoxy)-;  $\text{C}_6\text{H}_{13}\text{-C}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-benzyl-4-tertiary-hexyl phenol).  
Fly spray. 112, 230P.
- 581-591-952-999-1011.  
Ethanol, 2-(4-*tert*-amyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-tertiary-amyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-999-1011.  
Ethanol, 2-[*o*(*p*-*iso*amylphenyl)phenoxy]-;  $\text{C}_6\text{H}_{11}\text{-C}_6\text{H}_4\text{C}_6\text{H}_4\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4'-*iso*amyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-1000-1011.  
Ethanol, 2-(2,6-di-*tert*-amyl-4-phenylphenoxy)-;  $(\text{C}_6\text{H}_{11})_2\text{C}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3,5-di-tertiary-amyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1003.  
1-Propanol, (2-*tert*-butyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-3-tertiary-butyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-1001-1003.  
1-Butanol, (4-*isopropyl*-3-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-butyl ether of 2-hydroxy-5-*isopropyl* diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-1001-1003.  
1-Propanol, (4-*n*-butyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-5-normal-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1003.  
1-Propanol, (4-*tert*-butyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-5-tertiary-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1003-1021.  
1-Propanol, 4-benzyl-2-*tert*-butylphenoxy-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-tertiary-butyl-4-benzyl phenol).  
Fly spray. 112, 230P.
- 581-591-952-1001-1003-1021.  
1-Propanol, (2-*tert*-butyl-4-methyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{C}_6\text{H}_5)(\text{CH}_3)\text{OC}_6\text{H}_5\text{OH}$ . (Hydroxy-propyl ether of 2-hydroxy-3-tertiary-butyl-6-methyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1011.  
Ethanol, 2-(2-butyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1011.  
Ethanol, 2-(2-*sec*-butyl-4-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{CH}(\text{CH}_3)\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-secondary-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1011.  
Ethanol, 2-(4-*sec*-butyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{CH}(\text{CH}_3)\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-secondary-butyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-1001-1011.  
Ethanol, 2-(2-*tert*-butyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-tertiary-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1011.  
Ethanol, 2-(4-*tert*-butyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{-C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-tertiary-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1011-1021.  
Ethanol, 2-(2-*tert*-amyl-4-benzylphenoxy)-;  $\text{C}_6\text{H}_5\text{-CH}_2\text{C}_6\text{H}_4(\text{C}_6\text{H}_{11})\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-amyl-4-benzyl phenol).  
Fly spray. 112, 230P.
- 581-591-952-1001-1011-1021.  
Ethanol, 2-(4-*tert*-butyl-6-phenyl-o-toloxyl)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{CH}_3)(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-methyl-5-tertiary-butyl diphenyl).  
Fly spray. 112, 229P.
- 581-591-952-1001-1011-1022.  
Ethanol, 2-(2-benzyl-4-*tert*-butyl-6-methylphenoxy)-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4(\text{CH}_3)(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methyl-4-tertiary-butyl-6-benzyl phenol).  
Fly spray. 112, 230P.
- 581-591-952-1001-1012.  
Ethanol, 2-(2-*tert*-butyl-4-phenylethylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{C}_6\text{H}_5(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-tertiary-butyl-4-phenylethyl phenol).  
Fly spray. 112, 230P.
- 581-591-952-1001-1012.  
Ethanol, 2-[5-*sec*-butyl-2-*m*-(*n*-ethylphenyl)phenoxy]-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4-secondary-butyl-5'-ethyl diphenyl).  
Fly spray. 112, 228P.
- 581-591-952-1002-1003-1011.  
Ethanol, 2-(2-*n*-butyl-5-(3,4-diisopropylphenyl)phenoxy)-;  $(\text{C}_6\text{H}_7)_2\text{C}_6\text{H}_3\text{C}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_5\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4-*n*-butyl-4',6'-diisopropyl diphenyl).  
Fly spray. 112, 228P.

581-591-952-1002-1004-1011.

Ethanol, 2-(2,6-di-*tert*-butyl-4-(2,4-diisopropylphenoxy))-phenoxy];  $(C_6H_7)_2C_6H_4C_6H_4(C_6H_5)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3, 5-di-*tert*-butyl-4',6'-diisopropyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1002-1011.

Ethanol, 2-(2,4-di-*tert*-butyl-6-phenylphenoxy)-;  $(C_6H_5)_2C_6H_4(C_6H_5)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3,5-di-*tert*-butyl diphenyl).

Fly spray. 112, 228P, 229P.

581-591-952-1002-1011.

Ethanol, 2-(2,4-di-*sec*-butyl-5-phenylphenoxy)-;  $(C_6H_5)_2C_6H_4(C_6H_5)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4,6-di-*secondary*-butyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1002-1011-1021.

Ethanol, 2-(4-benzyl-2,5-di-*tert*-butylphenoxy)-;  $C_6H_5CH_2C_6H_4(C_6H_5)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2,5-di-*tert*-butyl-4-benzyl phenol).

Fly spray. 112, 230P.

581-591-952-1003-1011.

Ethanol, 2-(4-isopropyl-2-phenylphenoxy)-;  $C_6H_5C_6H_4(C_6H_7)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-isopropyl diphenyl).

30% T houseflies at 5%. 112, 228P, 229P.

581-591-952-1003-1011.

Ethanol, 2-(4-phenyl-2-*n*-propylphenoxy)-;  $C_6H_5C_6H_4(C_6H_7)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-5-*n*-propyl diphenyl).

Fly spray. 112, 228P, 229P.

581-591-952-1003-1021.

1-Propanol, 2-(phenyl-*p*-toloxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_3H_7OH$ . (Hydroxy-propyl ether of 2-hydroxy-5-methyl diphenyl).

Fly spray. 112, 229P.

581-591-952-1003-1021.

1-Propanol, 4-(phenyl-*o*-toloxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_3H_7OH$ . (Hydroxy-propyl ether of 4-hydroxy-3-methyl diphenyl).

Fly spray. 112, 229P.

581-591-952-1004.

1-Propanol, 2-(2,4-diisopropyl-6-phenylphenoxy)-;  $C_6H_5C_6H_4(C_6H_7)_2OC_3H_7OH$ . (Hydroxy-propyl ether of 2-hydroxy-3,5-diisopropyl diphenyl).

Fly spray. 112, 229P.

581-591-952-1004.

1-Propanol, 4-(4-isopropyl-2-phenylphenoxy)-;  $C_6H_5C_6H_4(C_6H_7)OC_3H_7OH$ . (Hydroxy-propyl ether of 2-hydroxy-5-isopropyl diphenyl).

25% T houseflies at 5%. 112, 228P, 229P.

581-591-952-1004.

1-Propanol, 4-(phenyl-2-*n*-propylphenoxy)-;  $C_6H_5C_6H_4(C_6H_7)OC_3H_7OH$ . (Hydroxy-propyl ether of 4-hydroxy-3-*normal*-propyl diphenyl).

Fly spray. 112, 229P.

581-591-952-1004-1011.

Ethanol, 2-(3,6-diisopropyl-2-phenylphenoxy)-;  $C_6H_5C_6H_4[CH(CH_3)_2]_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3,6-diisopropyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1004-1011.

Ethanol, 2-[*p*-(2,4-dipropylphenyl)phenoxy];  $(C_6H_7)_2C_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2', 4'-di-*n*-propyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1011-1021.

Ethanol, 2-(2-phenyl-*p*-toloxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-methyl diphenyl).

Fly spray. 112, 229P.

581-591-952-1011-1021.

Ethanol, 2-(4-phenyl-*o*-toloxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-methyl diphenyl).

Fly spray. 112, 229P.

581-591-952-1011-1021.

Ethanol, 2-(6-phenyl-*o*-toloxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-methyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1011-1022.

Ethanol, 2-(2,4-dimethyl-6-phenylphenoxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of

2-hydroxy-3,5-dimethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1011-1022.

Ethanol, 2-(2,6-dimethyl-4-phenylphenoxy)-;  $C_6H_5C_6H_4(CH_3)_2OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3,5-dimethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(2-ethyl-3-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-3-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(2-ethyl-4-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-ethyl diphenyl).

Fly spray. 112, 228P, 229P.

581-591-952-1012.

Ethanol, 2-(2-ethyl-5-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(2-ethyl-6-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(3-ethyl-2-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-6-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(3-ethyl-4-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(3-ethyl-5-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-5-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(4-ethyl-2-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(4-ethyl-3-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-6-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-(5-ethyl-2-phenylphenoxy)-;  $C_6H_5C_6H_4(C_2H_5)OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-[*m*-(*m*-ethylphenyl)phenoxy]-;  $C_6H_5C_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-3'-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-[*m*-(*o*-ethylphenyl)phenoxy]-;  $C_6H_5C_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2'-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-[*m*-(*p*-ethylphenyl)phenoxy]-;  $C_6H_5C_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4'-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-[*o*-(*m*-ethylphenyl)phenoxy]-;  $C_6H_5C_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3'-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-[*o*-(*o*-ethylphenyl)phenoxy]-;  $C_6H_5C_6H_4C_6H_4OC_2H_4OH$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-2'-ethyl diphenyl).

Fly spray. 112, 228P.

581-591-952-1012.

Ethanol, 2-[*o*-(*p*-ethylphenyl)phenoxy]-;  $C_6H_5C_6H_4C_6H_4OC_2H_4OH$ .

- $\text{H}_4\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4'-ethyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-952-1012.  
Ethanol, 2-[*p*-(*m*-ethylphenyl)phenoxy]-;  $\text{C}_8\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3'-ethyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-952-1012.  
Ethanol, 2-[*p*-(*o*-ethylphenyl)phenoxy]-;  $\text{C}_8\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2'-ethyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-952-1012.  
Ethanol, 2-[*p*-(*p*-ethylphenyl)phenoxy]-;  $\text{C}_8\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2'-ethyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-952-1013.  
Ethanol, 2-[2-ethyl-4-(*p*-ethylphenyl)phenoxy]-;  $\text{C}_8\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-4',6'-diethyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-952-1014.  
Ethanol, 2-[*p*-(2,4,6-triethylphenyl)phenoxy]-;  $\text{C}_8\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-2',4',6'-triethyl-diphenyl).  
Fly spray. 112, 226P.
- 581-591-952-1021.  
Phenol, 4-benzoyloxy-;  $\text{HOC}_6\text{H}_4\text{OCH}_2\text{C}_6\text{H}_5$ . (Hydroquinone monobenzyl ether).  
NT *Bombyx mori* larvae. 559.
- 581-591-952-1022.  
Cresol, *o*-benzoyloxy-, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OCH}_2\text{C}_6\text{H}_4\text{OH}$ ? (Dibenzyl ethers, hydroxy-).  
T as mothproofing agent. 439P, 1179, 1453P, 1454P.
- 581-591-953-1001-1011-1021.  
Ethanol, 2-(4-benzyl-2-*tert*-butyl-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-tertiary-butyl-5-benzyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-953-1011-1021.  
Ethanol, 2-(4-benzyl-2-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-5-benzyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-953-1011-1021.  
Ethanol, 2-[*m*-(*p*-benzylphenyl)phenoxy]-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-4'-benzyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-953-1012.  
Ethanol, 2-(4-phenyl-2-phenylethylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-3-phenyl ethyl diphenyl).  
Fly spray. 112, 226P.
- 581-591-954-1003-1021-1193-1325.  
Phosphonium hydride, thymoxitriphenyl-;  $\text{HC}(\text{C}(\text{CH}_3)_2\text{CH}:\text{CHC}(\text{CH}(\text{CH}_3)_2)_2):\text{OOP}(\text{C}_6\text{H}_5)_3\text{OH}$ ?  
T as mothproofing agent. 441P, 1179.
- 581-591-954-1193-1325.  
Phosphonium hydride, *m*-hydroxyphenoxytriphenyl-;  $\text{HOC}_6\text{H}_4\text{OP}(\text{C}_6\text{H}_5)_3\text{OH}$ .  
T as mothproofing agent. 441P, 1179.
- 581-591-957-1003-1022.  
Ether, methyl terpinyl-;  $\text{C}_{10}\text{H}_{17}\text{OCH}_3$ . (Methyl ether of terpineol).  
T houseflies when used with pyrethrum and rotenone. 1103.
- 581-591-957-1003-1022-1027.  
Ether, aryl terpinyl, CU;  $\text{C}_{10}\text{H}_{17}\text{OR}$ . (Terpineol aliphatic ether). 1275P.
- 581-591-962-999.  
Pentanol, *o*-cyclohexylcyclohexyloxy-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_5\text{H}_{11}\text{OH}$ . (Hydroxy-pentyl ether of 2-cyclohexyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1001.  
Butanol, *o*-cyclohexylcyclohexyloxy-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_4\text{H}_9\text{OH}$ . (Hydroxy butyl ether of 2-cyclohexyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1001.  
Butanol, *p*-cyclohexylcyclohexyloxy-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_4\text{H}_9\text{OH}$ . (Hydroxy butyl ether of 4-cyclohexyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1001-1011.  
Ethanol, 2-(4-*tert*-butyl-2-cyclohexylcyclohexyloxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-4-tertiary-butyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1011.  
Ethanol, 2-(*m*-cyclohexylcyclohexyloxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-cyclohexyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1011.  
Ethanol, 2-(*o*-cyclohexylcyclohexyloxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1011.  
Ethanol, 2-(*p*-cyclohexylcyclohexyloxy)-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_{10}\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-cyclohexyl cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1011-1021.  
Ethanol, 2-(*m*-methylcyclohexyl)cyclohexyloxy-;  $\text{CH}_3\text{C}_6\text{H}_{10}\text{C}_6\text{H}_{10}\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-(3-methylcyclohexyl)-cyclohexanol).  
Fly spray. 112, 226P.
- 581-591-962-1027.  
Alcohols, cyclohexylphenoxy substituted;  $\text{RO}(\text{C}_6\text{H}_{11})\text{OH}$ . (Hydroxy alkyl ethers of hydrogenated hydroxy diphenyl compounds).  
Where R represents a hydrogenated hydroxyl diphenyl residue and n is an integer greater than 1.  
Fly spray. 112, 226P.
- 581-591-963-1027.  
Bicyclohexyl, hydroxy alkoxy derivatives;  $\text{RO}(\text{C}_6\text{H}_{11})\text{OH}$ . (Hydroxy alkyl ethers of hydrogenated hydroxyl diphenyl compound).  
Fly spray. 112, 226P.
- 581-591-1012.  
Ethanol, 2-ethoxy-;  $\text{CH}_3\text{OHCH}_2\text{OC}_2\text{H}_5$  (Ethylene glycol monoethyl ether).  
NT rice weevil. 302P, 1180.
- 581-592-841-951-999-1003-1021.  
Propanol, 4-*tert*-amyl-2-bromo-6-methoxyphenoxy-;  $\text{C}_6\text{H}_3(\text{CH}_3)_2\text{OC}_2\text{H}_4(\text{Br})\text{OC}_2\text{H}_4\text{OH}$ . (Hydroxy-propyl ether of 2-methoxy-4-tertiary-amyl-6-bromophenol).  
Fly spray. 112, 230P.
- 581-592-841-951-1001-1011.  
Ethanol, 2-(4-bromo-2-*tert*-butyl-6-methoxyphenoxy)-;  $(\text{CH}_3)_3\text{C}(\text{Br})\text{C}_6\text{H}_3(\text{OCH}_3)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methoxy-4-bromo-6-tertiary-butyl phenol).  
Fly spray. 112, 230P.
- 581-592-841-952-1011-1021.  
Ethanol, 2-(4-bromo-2-methoxy-6-phenylphenoxy)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{Br})(\text{OCH}_3)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-methoxy-5-bromodiphenyl).  
Fly spray. 112, 228P.
- 581-592-841-953-1012-1022.  
Ethanol, 2-[4-benzyl-2-(2-bromo-4-ethylphenyl)-6-methoxyphenoxy]-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{Br})(\text{CH}_3)\text{OC}_2\text{H}_4(\text{CH}_3\text{C}_6\text{H}_5)(\text{OCH}_3)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxyethyl ether of 2-hydroxy-2'-bromo-3-methoxy-4'-ethyl-5-benzyl diphenyl).  
Fly spray. 112, 228P.
- 581-592-851-951-999-1011-1021.  
Ethanol, 2-(4-*tert*-amyl-2-chloro-6-methoxyphenoxy)-;  $\text{C}_6\text{H}_3(\text{CH}_3)_2\text{OC}_2\text{H}_4(\text{Cl})(\text{OCH}_3)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methoxy-4-tertiary-amyl-6-chloro-phenol).  
Fly spray. 112, 230P.
- 581-592-851-951-1012.  
Phenol, 2-chloroethoxyethoxy-, CU;  $\text{HOC}_6\text{H}_4\text{OCH}_2\text{CH}_2\text{OC}_6\text{H}_4\text{OH}$ . 1095P.
- 581-592-852-952-1011-1021.  
Ethanol, 2-[3-chloro-6-methoxy-2-(*p*-chlorophenyl)phenoxy]-;  $\text{ClC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})(\text{OCH}_3)\text{OC}_2\text{H}_4\text{OH}$ .

- ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-3-methoxy-4'-6-dichlorodiphenyl).  
Fly spray. 112, 228P.
- 581-592-951-961-1003-1021.  
Propanol, (4-cyclohexyl-2-methoxyphenoxy)-;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . (Hydroxy-propyl ether of 2-methoxy-4-cyclohexyl phenol).  
Fly spray. 112, 228P.
- 581-592-951-961-1011-1021.  
Ethanol, 2-(2-cyclohexyl-6-methoxyphenoxy)-;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-cyclohexyl-6-methoxy phenol).  
Fly spray. 112, 228P.
- 581-592-951-961-1012.  
Ethanol, 2-(4-cyclohexyl-2-ethoxyphenoxy)-;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{OC}_2\text{H}_5)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-ethoxy-4-cyclohexyl phenol).  
Fly spray. 112, 228P.
- 581-592-951-963-1011-1021.  
Ethanol, 2-(3-methoxy-4-*tert*-octylphenoxy)-;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_3(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-methoxy-4-*tert*-octyl phenol).  
Fly spray. 112, 230P.
- 581-592-951-999-1001-1003.  
Butanol, (2-*tert*-amyl-4-propoxyphenoxy)-;  
 $\text{C}_6\text{H}_7\text{OC}_6\text{H}_3[\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5]\text{OC}_4\text{H}_9\text{OH}$ . (Hydroxy-butyl ether of 2-*tert*-amyl-4-propyloxy phenol).  
Fly spray. 112, 230P.
- 581-592-951-999-1003-1011.  
Ethanol, 2-(4-*tert*-amyl-2-*n*-propoxyphenoxy)-;  
 $\text{C}_6\text{H}_5\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{OC}_2\text{H}_5)\text{OC}_2\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-*n*-propyloxy-4-*tert*-amyl phenol).  
Fly spray. 112, 230P.
- 581-592-951-1001-1003-1021.  
Propanol, (4-*tert*-butyl-3-methoxyphenoxy)-;  
 $(\text{CH}_3)_2\text{CC}_6\text{H}_3(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . Hydroxy-propyl ether of 3-methoxy-4-*tert*-butyl phenol).  
Fly spray. 112, 230P.
- 581-592-951-1001-1011-1021.  
Ethanol, 2-(4-*tert*-butyl-2-methoxyphenoxy)-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methoxy-4-*tert*-butyl phenol).  
Fly spray. 112, 230P.
- 581-592-951-1001-1011-1021-1030.  
Ethanol, 2-eugenyl- $\gamma$ -?  
 $\text{HOCH}_2\text{CH}_2\text{OC}_6\text{H}_3(\text{OCH}_3)\text{CH}_2\text{CH}_2\text{CH}:\text{CH}_2$ . (Ethylene glycol monoeugenyl ether). 591P.
- 581-592-951-1001-1011-1022.  
Ethanol, 2-(4-*tert*-butyl-2-methoxy-6-methyl-phenoxy)-;  
 $(\text{CH}_3)_2\text{CC}_6\text{H}_3(\text{CH}_3)(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methoxy-4-*tert*-butyl-6-methyl phenol).  
Fly spray. 112, 230P.
- 581-592-951-1001-1012.  
Ethanol, 2-(2-acetyl-4-*tert*-butylphenoxy)-;  
 $(\text{CH}_3)_2\text{CC}_6\text{H}_3(\text{COCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-acetyl-4-*tert*-butylphenol).  
Fly spray. 112, 230P.
- 581-592-951-1012.  
Diethylene glycol monophenyl ether:  $\text{HOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OC}_6\text{H}_5$ . 591P.
- 581-592-951-1012-1021.  
Diethylene glycol monobenzyl ether:  $\text{HOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OC}_6\text{H}_5$ . 591P.
- 581-592-952-999.  
Pentanol, *p*-(*p*-methoxyphenyl)phenoxy-;  
 $\text{CH}_3\text{OC}_6\text{H}_4\text{OC}_6\text{H}_4\text{OC}_5\text{H}_{11}\text{OH}$ . (Hydroxy-pentyl ether of 4-hydroxy-4'-methoxy diphenyl).  
Fly spray. 112, 228P.
- 581-592-952-1001-1011.  
Ethanol, 2-[4-(*p*-butoxyphenyl) phenoxy]-;  
 $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{C}_6\text{H}_3(\text{OC}_2\text{H}_5)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 4-hydroxy-4'-butoxy diphenyl).  
Fly spray. 112, 228P.
- 581-592-952-1001-1011-1021.  
Ethanol, 2-(4-*tert*-butyl-2-methoxy-3-phenylphenoxy)-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OCH}_3)(\text{C}_6\text{H}_5)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 3-hydroxy-2-methoxy-6-*tert*-butyl diphenyl).  
Fly spray. 112, 228P.
- 581-592-952-1001-1011-1022.  
Ethanol, 2-(3-benzyl-4-*tert*-butyl-6-methoxyphenoxy)-;  
 $(\text{CH}_3)_2\text{CC}_6\text{H}_3(\text{OC}_2\text{H}_5)(\text{CH}_2\text{C}_6\text{H}_5)(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-methoxy-4-*tert*-butyl-6-benzyl phenol).  
Fly spray. 112, 228P.
- 581-592-952-1001-1011-1021.  
Ethanol, 2-(2-ethoxy-2-phenylphenoxy)-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OC}_2\text{H}_5)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4-ethoxy diphenyl).  
Fly spray. 112, 228P.
- 581-592-952-1003-1021.  
Propanol, (2-methoxy-4-phenylphenoxy)-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OCH}_3)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-propyl ether of 4-hydroxy-5-methoxy diphenyl).  
Fly spray. 112, 228P.
- 581-592-952-1012.  
Ethanol, 2-(5-ethoxy-2-phenylphenoxy)-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OC}_2\text{H}_5)\text{OC}_6\text{H}_4\text{OH}$ . ( $\beta$ -Hydroxy-ethyl ether of 2-hydroxy-4-ethoxy diphenyl).  
Fly spray. 112, 228P.
- 581-592-952-1013.  
Ethanol, 2-(2-ethoxyethoxy)-;  
 $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OH}$ . (Diethylene glycol monoethyl ether: "Carbitol").  
T *Simuliidae* spp. 589P.
- 581-620-950.  
Xanthidol;  $(\text{C}_{11}\text{H}_9\text{O})\text{OH}$ .  
ET codling moth larvae. 487, 1120, 1323P.
- 581-625-1021.  
Furfuryl alcohol;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OH}$ .  
ST *Aphis rumicis*. 1152.
- 581-632-851-961.  
Cyclohexanol, 2-chloro-1,2-epoxy-?  
 $\text{Cl}(\text{C}_6\text{H}_9\text{O})\text{OH}$ . (1-Chloro-2-hydroxycyclohexane oxide).  
T parasites. 280P.
- 581-632-851-961-1021.  
Cyclohexanol, 2-chloro-1,2-epoxy-5-methyl-;  
 $\text{Cl}(\text{C}_6\text{H}_7\text{O})(\text{CH}_3)\text{OH}$ . (1-Chloro-2-hydroxy-4-methyl-cyclohexane oxide).  
T parasites. 280P.
- 581-632-851-968.  
Cyclopentanol, 2-chloro-1,2-epoxy-;  
 $\text{Cl}(\text{C}_6\text{H}_9\text{O})\text{OH}$ . (1-Chloro-2-hydroxycyclopentane oxide). 280P.
- 581-665-841-924-951.  
1-Naphthol, 5,6,7,8-tetrahydro-4-(*p*-bromophenyl-azo)-;  
 $\text{C}_{10}\text{H}_{11}\text{N}:\text{NC}_6\text{H}_4\text{Br}$ .  
MT mosquito larvae. 487, 488.
- 581-665-841-952.  
Phenol, 4-(*p*-bromophenylazo)-;  
 $\text{BrC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_4\text{OH}$ . (4-Hydroxy-4'-bromo azobenzene).  
HT mosquito larvae; ST greenhouse red spider at 2%; NT southern army worm at 4%. 487, 488, 1438P, 1481.
- 581-665-841-952-1021.  
*m*-Cresol, 4-(*p*-bromophenylazo)-;  
 $\text{HO}(\text{CH}_3)\text{C}_6\text{H}_3\text{N}:\text{NC}_6\text{H}_4\text{Br}$ .  
HT mosquito larvae. 156, 487, 488, 1441P.
- 581-665-841-952-1021.  
*o*-Cresol, 4-(*p*-bromophenylazo)-;  
 $\text{HO}(\text{CH}_3)\text{C}_6\text{H}_3\text{N}:\text{NC}_6\text{H}_4\text{Br}$ .  
MT mosquito larvae. 487, 1441P.
- 581-665-852-924-951.  
2-Naphthol, 1-(2,5-dichlorophenylazo)-;  
 $\text{Cl}_2\text{C}_6\text{H}_3\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ .  
NT mosquito larvae. 487.
- 581-665-852-952.  
Phenol, 4-(2,5-dichlorophenylazo)-;  
 $\text{OHC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_3\text{Cl}_2$ .  
T mosquito larvae. 156, 487, 488, 1438P.
- 581-665-852-952-961.  
Phenol, 6-cyclohexyl-4-(2,5-dichlorophenylazo)-;  
 $\text{Cl}_2\text{C}_6\text{H}_3\text{N}:\text{NC}_6\text{H}_4(\text{OH})\text{C}_6\text{H}_{11}$ .  
MT mosquito larvae. 487, 488.
- 581-665-852-952-1003-1021.  
Carvacrol, 4-(2,5-dichlorophenylazo)-;  
 $\text{CH}_3(\text{C}_6\text{H}_7)\text{C}_6\text{H}_3(\text{OH})\text{N}:\text{NC}_6\text{H}_3\text{Cl}_2$ .  
NT mosquito larvae. 487.
- 581-665-852-952-1003-1021.  
Thymol, 6-chloro-2-(2,5-dichlorophenylazo)-;  
 $\text{CH}_3(\text{Cl})\text{C}_6\text{H}_3(\text{OH})[\text{CH}(\text{CH}_3)_2]\text{N}:\text{NC}_6\text{H}_3\text{Cl}_2$ .  
NT mosquito larvae. 487.
- 581-665-852-952-1003-1021.  
Thymol, 4-(2,5-dichlorophenylazo)-;  
 $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})[\text{CH}(\text{CH}_3)_2]\text{N}:\text{NC}_6\text{H}_3\text{Cl}_2$ .  
NT mosquito larvae. 487.
- 581-665-852-952-1021.  
*m*-Cresol, 4-(2,5-dichlorophenylazo)-;

- $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})\text{N}:\text{NC}_6\text{H}_4\text{Cl}_3$ .  
 MT mosquito larvae. 487, 488.  
 581-665-952-952-1021.  
*o*-Cresol, 4-(2,5-dichlorophenylazo)-;  
 $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})\text{N}:\text{NC}_6\text{H}_4\text{Cl}_3$ .  
 HT mosquito larvae. 487, 488, 1441P.  
 581-665-952-952-1021.  
*p*-Cresol, 2-(2,5-dichlorophenylazo)-;  
 $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})\text{N}:\text{NC}_6\text{H}_4\text{Cl}_3$ .  
 NT mosquito larvae. 487.  
 581-665-952-952-1022.  
 2,5-Xylenol, 4-(2,5-dichlorophenylazo)-;  
 $(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{OH})\text{N}:\text{NC}_6\text{H}_4\text{Cl}_3$ .  
 MT mosquito larvae. 487, 488, 1285.  
 581-665-952-952-1022.  
 2,6-Xylenol, 4-(2,5-dichlorophenylazo)-;  
 $(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{OH})\text{N}:\text{NC}_6\text{H}_4\text{Cl}_3$ .  
 NT mosquito larvae. 487.  
 581-665-952-952-1021.  
*m*-Cresol, 4-chloro-6-(2,5-dichlorophenylazo)-;  
 $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})(\text{Cl})\text{N}:\text{NC}_6\text{H}_4\text{Cl}_3$ .  
 NT mosquito larvae. 487.  
 581-665-971-952-1021.  
*o*-Cresol, 4-(*p*-iodophenylazo)-;  
 $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})\text{N}:\text{NC}_6\text{H}_4\text{I}$ .  
 HT mosquito larvae. 110, 487, 488, 1441P.  
 581-665-924.  
 1-Naphthol, 4-(1-naphthylazo)-;  
 $\text{HOC}_{10}\text{H}_7\text{N}:\text{NC}_{10}\text{H}_7$ .  
 NT mosquito larvae. 487.  
 581-665-924.  
 1-Naphthol, 4-(2-naphthylazo)-;  
 $\text{HOC}_{10}\text{H}_7\text{N}:\text{NC}_{10}\text{H}_7$ . 1436P.  
 581-665-924.  
 2-Naphthol, 1-(1-naphthylazo)-;  
 $\text{HOC}_{10}\text{H}_7\text{N}:\text{NC}_{10}\text{H}_7$ .  
 NT mosquito larvae. 487.  
 581-665-924-951.  
 1-Naphthol, 4-phenylazo-;  
 $\text{C}_6\text{H}_5\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ . 1436P.  
 581-665-924-951.  
 2-Naphthol, 1-phenylazo-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ .  
 ST greenhouse red spider; NT mosquito larvae  
 and NT southern army worm at 4%. 487, 1481.  
 581-665-924-951.  
 Naphthol, phenylazo-, CU; RN: NR<sup>1</sup>(OH).  
 The general formula above where R and R<sup>1</sup> denote  
 interchangeable homocyclic aryl nuclei, R being a  
 single benzene ring and R<sup>1</sup> a naphthyl nucleus. 1436P.  
 581-665-924-951.  
 Phenol, (1-naphthylazo)-;  $\text{C}_{10}\text{H}_7\text{N}:\text{NC}_6\text{H}_4\text{OH}$ .  
 1436P.  
 581-665-924-951-1021.  
 1-Naphthol, 4-(*o*-tolylazo)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ .  
 1436P.  
 581-665-924-951-1021.  
 2-Naphthol, 1-(*o*-tolylazo)-;  $\text{HOC}_{10}\text{H}_7\text{N}:\text{NC}_6\text{H}_4\text{CH}_3$ .  
 NT corn borer. 1120, 1436P.  
 581-665-924-951-1022.  
 2-Naphthol, 1-[4-(*m*-xylyl)-azo]-;  
 $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ .  
 NT mosquito larvae. 487.  
 581-665-924-951-1022.  
 2-Naphthol, 1-xylylazo-, CU;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ .  
 NT corn borer. 1120.  
 581-665-924-952.  
 2-Naphthol, 1-[*p*-(phenylazo)-phenylazo]-;  
 $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_4\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ . (Sundan III).  
 NT corn borer, screwworms, and mosquito larvae.  
 156, 487, 1120.  
 581-665-924-952-1022.  
 2-Naphthol, 1-[4-(*o*-tolylazo)-2-tolylazo]-;  
 $\text{CH}_3\text{C}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_3(\text{CH}_3)\text{N}:\text{NC}_{10}\text{H}_7\text{OH}$ .  
 NT mosquito larvae. 487.  
 581-665-924-952-1024.  
 2-Naphthol, 1-xylylasoxyazo-;  
 $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{N}:(\text{CH}_3)_2\text{C}_6\text{H}_3\text{N}:\text{NC}_{10}\text{H}_7(\text{OH})$ .  
 NT corn borer. 1120.  
 581-665-952.  
 Phenol, *p*-phenylazo-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_4\text{OH}$ .  
 (*p*-Hydroxyazobenzene).  
 T codling moth, mosquito larvae, and T screw-  
 worms at 0.67%; ST greenhouse red spider;  
 NT *Bombys mori* larvae and southern army worm.  
 156, 488, 559, 915, 1481.  
 581-665-952-1021.  
*m*-Cresol, 4-phenylazo-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
 HT mosquito larvae; ST greenhouse red spider at  
 2%. 487, 488, 1481.  
 581-665-952-1021.  
*o*-Cresol, 4-phenylazo-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
 HT mosquito larvae; ST southern army worm at  
 4% and ST greenhouse red spider at 2%. 487,  
 1481.  
 581-665-952-1021.  
*m*-Cresol, phenylazo-, CU;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
 (Benzene-*aso*-*m*-cresol).  
 HT screwworms at 0.10-0.17%. 156.  
 581-665-952-1021.  
*p*-Cresol, phenylazo-, CU;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
 (Benzene-*aso*-*p*-cresol).  
 T mosquito larvae and T screwworms at 0.33-0.67%;  
 MT codling moth. 156, 488, 915.  
 581-665-953.  
 Phenol, 2,4-bis(phenylazo)-;  $\text{HOC}_6\text{H}_3(\text{N}:\text{NC}_6\text{H}_5)_2$ .  
 (2,4-Bis benzene *aso* phenol).  
 NT southern army worm at 4%. 1481.  
 581-665-975-1027.  
 Alkylasohydroxy compounds, CU.  
 Compounds containing homocyclic nuclei joined by  
 one *aso* group, and containing in addition to not less  
 than one hydroxyl group, not less than one alkyl  
 group. 1441P.  
 581-671-951.  
 Phenol, *m*-amino-;  $\text{NH}_2\text{C}_6\text{H}_4\text{OH}$ . *m*-Hydroxyani-  
 line).  
 T codling moth and T screwworms at 0.33-0.67%.  
 156, 915.  
 581-671-951.  
 Phenol, *o*-amino-;  $\text{NH}_2\text{C}_6\text{H}_4\text{OH}$ . (*o*-Hydroxyaniline).  
 T Japanese beetle; ST screwworms at 0.67%.  
 156, 494.  
 581-671-951.  
 Phenol, *p*-amino-;  $\text{NH}_2\text{C}_6\text{H}_4\text{OH}$ . (*p*-Hydroxyaniline).  
 T screwworms; *MTCarpocapsa pomonella* larvae;  
 NT *Melanophus m. mexicanus*. 156, 915, 1150, 1291.  
 581-671-951-1291.  
 Phenol, *p*-amino-, hydrochloride;  $\text{OHC}_6\text{H}_4\text{NH}_2\text{HCl}$ .  
 T screwworms at 0.17-0.33%. 156.  
 581-671-987.  
 Tridecanol, 3-aminomethyl-;  $\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{CH}_2)_9\text{NH}_2$ .  
 (Amine 2-hydroxyethyl- dodecyl).  
 T houseflies. 1276.  
 581-671-1011.  
 Ethanol, 1-amino-?  $\text{CH}_3\text{CH}(\text{NH}_2)\text{OH}$ . (Aldehyde  
 ammonia).  
 ST *Aphis rumicis*. 1152.  
 581-673-953-1021.  
 Pararosaniline;  $\text{HOC}(\text{C}_6\text{H}_4\text{NH}_2)_3$ . (Tris(*p*-amino-  
 phenyl)carbinol; 4,4',4''-tri-aminotriphenyl-carbinol).  
 NT mosquito larvae. 487.  
 581-673-953-1022-1291.  
 Fuchsine. (Mixture of rosaniline and pararosaniline  
 hydrochlorides). (Amethyst; aniline red; azaleih;  
 cerise; chestnut; erythrobensine; fuchsiacine; fuch-  
 sianite; garnet; geranium; grenadine; harmaline;  
 magenta; magenta crystals; magenta red; magenta  
 roseine; maroon; ponceau; roseine; rubenite; rube-  
 sine; rubianin; rubine; Russian red; salferino).  
 T *Lucilia cuprina* larvae; NT clothes moths.  
 849, 924, 1176.  
 581-673-953-1022-1291.  
 Rosaniline hydrochloride;  $\text{C}_{20}\text{H}_{19}\text{N}_3\text{HCl}$ .  
 NT codling moth. 915.  
 581-681-800-952.  
 Phenol, *p*-anilino-, sulfurised. (Sulfurised *p*-hydroxy-  
 diphenylamine).  
 NT adult Mexican bean beetle. 606, 1432.  
 581-681-800-952-1021.  
*m*-Cresol, *p*-anilino-, sulfurised. (Sulfurised *o*-met-  
 hyl *p*-hydroxy-diphenylamine).  
 NT adult Mexican bean beetle. 606, 1432.  
 581-681-800-952-1021.  
 Phenol, 4-(*p*-toluino)-, sulfurised. (Sulfurised  
*p*-methyl *p*-hydroxy-diphenylamine).  
 ST adult Mexican bean beetle. 606, 1432.  
 581-681-952-1001-1030.  
 Phenol, 4-anilino-2-isobutanyl-?



- HOC<sub>6</sub>H<sub>4</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>NEC<sub>6</sub>H<sub>5</sub>? (2-Methylallyl 4-anilino phenol). 1082P.  
581-681-952-1003-1030.  
Phenol, 2-allyl-4-anilino-; CH<sub>2</sub>:CHCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(OH)-NEC<sub>6</sub>H<sub>5</sub>. 1082P.  
581-681-952-1021.  
Phenol, p-benzylamino-; OHC<sub>6</sub>H<sub>4</sub>NECH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>? Monobenzyl p-amino phenol).  
NT *Bombyx mori* larvae. 561.  
581-681-961-1011.  
Ethanol, 2-cyclohexylamino-; HOCH<sub>2</sub>CH<sub>2</sub>NEC<sub>6</sub>H<sub>11</sub>? Cyclohexylethanolamine). 377P.  
581-691-951-961-1011-1021.  
Ethanol, 2-benzylamino-N-cyclohexyl-; C<sub>6</sub>H<sub>5</sub>:N(CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)CH<sub>2</sub>CH<sub>2</sub>OH. (Cyclohexylamine, N-benzyl-N-hydroxyethyl-; N-ethylol-N-benzyl-cyclohexylamine).  
Fly spray. 112, 1015P.  
581-691-951-1012.  
Phenol, m-diethylamino-; (CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>OH. (m-Hydroxydiethyl aniline).  
T as mothproofing agent. 404P, 870P, 1175.  
581-691-1011-1022.  
Ethanol, 2-dimethylamino-; (CH<sub>3</sub>)<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>OH. (β-Dimethylamine ethyl alcohol).  
NT rice weevil. 1180.  
581-692-952-1025.  
Benzhydrol, p,p'-bis(dimethylamino)-; HOCH(C<sub>6</sub>H<sub>4</sub>N(CH<sub>3</sub>)<sub>2</sub>)<sub>2</sub>. (Tetramethyl diamine benzohydrol; Michler's hydrol; tetramethyl 4,4'-diaminobenzhydrol).  
NT *Bombyx mori* and codling moth larvae. 559, 561, 915.  
581-696-730-841-851-952-1023-1291.  
Piperidinium chloride, 1-benzyl-1-(2-bromo-3-chloro-6-hydroxy-5-methylbenzyl)-; (C<sub>6</sub>H<sub>5</sub>N)(Cl)(C<sub>6</sub>H<sub>4</sub>-CH<sub>2</sub>-CH<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>(Br)(Cl)(CH<sub>2</sub>)OH. (5-Bromo-2-methyl-4-chloro-1-hydroxy-dibenzylpiperidinium chloride).  
Used to mothproof wool. 678P.  
581-696-851-952-1024-1291.  
Ammonium chloride, benzylidimethyl(2-hydroxy-5-chlorobenzyl)-; (CH<sub>3</sub>)<sub>2</sub>(Cl)N(C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Cl)OH.  
Used to mothproof wool. 678P.  
581-696-854-952-1012-1022-1291.  
Ammonium chloride, (3,4-dichlorobenzyl)(dichloro-hydroxybenzyl) dimethyl-, CU; (Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>)-[Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(OH)(CH<sub>2</sub>)](CH<sub>2</sub>)<sub>2</sub>NCl. (4,6,3',4'-Tetrachloro-1-hydroxy-dibenzyl-diethyl ammonium chloride).  
Used to mothproof wool. 678P.  
581-696-1011-1023-1291.  
Choline hydrochloride; HOCH<sub>2</sub>CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>OH.HCl.  
T *Aphis rumicis*. 1152.  
581-700-781-952-1011-1291.  
Phenol, p-(2-imino-2-phenylthioethyl)-; HOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CH<sub>2</sub>C(=NHC<sub>6</sub>H<sub>5</sub>)SC<sub>6</sub>H<sub>5</sub>. (p-Hydroxyphenyl-acetimidol-thiophenylether hydrochloride).  
MT mosquito larvae. 172, 1178.  
581-701-853-1003.  
Propionitrile, α-hydroxy-β-trichloro-? Cl<sub>3</sub>CCH(OH)CN. (Chloral cyanohydrin).  
NT rice weevil. 1180.  
581-720-730-950-1011-1021-1030.  
Cinchonine; C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O.  
HT screwworms at 0.01-0.03%; T codling moth and silkworm larvae, and as mothproofing agent; ST *Culex quinquefasciatus* larvae. 156, 157, 561, 744P, 915.  
581-720-730-950-1011-1021-1030.  
Cinchonidine; C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O. (Stereoisomer of cinchonine).  
T as mothproofing agent; ST silkworm. 561, 740P, 744P, 955, 1176.  
581-720-730-950-1011-1021-1030-1291.  
Cinchonine hydrochloride; C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O.HCl.  
HT screwworms; T as mothproofing agent; NT silkworms. 156, 561, 739, 1176, 1472P.  
581-720-730-950-1011-1021-1030-1291.  
Cinchonidine hydrochloride; C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O.HCl.  
T as mothproofing agent. 739, 1176.  
581-720-730-950-1011-1021-1030-1312.  
Cinchonine hydrofluoride; C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O.HF.  
T as mothproofing agent. 739, 1176.  
581-720-730-950-1011-1021-1030-1312.  
Cinchonidine hydrofluoride; C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O.HF.  
T as mothproofing agent. 739, 1176.  
581-720-730-950-1011-1021-1030-1312.  
Cinchonidine sulfate; (C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O)<sub>2</sub>H<sub>2</sub>SO<sub>4</sub>.  
HT screwworms; T *Aphis rumicis* and as mothproofing agent; NT silkworms. 156, 561, 739, 1152, 1176.  
581-720-730-950-1011-1021-1030-1312.  
Cinchonidine sulfate; (C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O)<sub>2</sub>H<sub>2</sub>SO<sub>4</sub>.  
T *Aphis rumicis* and as mothproofing agent. 739, 1152, 1176.  
581-720-1021.  
Lupinine; C<sub>10</sub>H<sub>17</sub>NO.  
This commercial product was obtained from a Russian weed, *Anabasis Aphylla* L.  
T mosquito larvae. 171, 172.  
581-730.  
2-Pyridol; HO(C<sub>5</sub>H<sub>4</sub>N). (β-Hydroxypyridine).  
T *Aphis rumicis*. 1153.  
581-730-950.  
Carbostyryl; HO(C<sub>6</sub>H<sub>4</sub>N). (2-Hydroxyquinoline).  
T screwworms, *Phormia regina*, *Cochliomyia macellaria*, and *Lucilia sericata*; NT silkworms. 156, 559, 806.  
581-730-950.  
8-Quinolol; HO(C<sub>8</sub>H<sub>6</sub>N). (8-Hydroxy quinoline).  
T codling moth and screwworms; MT mosquito larvae; NT *Tineola biselliella*, *Attageus piceus*, and *Bombyx mori* larvae. 156, 559, 561, 739, 915, 1176.  
581-730-950-1389.  
Quinocol; HOC<sub>6</sub>H<sub>4</sub>N.H<sub>2</sub>SO<sub>4</sub>. (8-Hydroxyquinoline sulfate).  
T screwworms at 0.17-0.33%. 156.  
581-730-1003.  
Pyridol, dimethyl-, CU; C<sub>5</sub>H<sub>4</sub>N[CH(CH<sub>3</sub>)<sub>2</sub>OH]. (Dimethyl-β-pyridyl carbinol).  
ST *Aphis rumicis*. 1151.  
581-740-951-1021.  
Phenol, p-(α-N-methylpyrrolidyl)-; HOC<sub>6</sub>H<sub>4</sub>(C<sub>4</sub>H<sub>8</sub>N)CH<sub>2</sub>. [α-(p-Hydroxyphenyl)-(N-methylpyrrolidine)].  
NT *Aphis rumicis*. 261.  
581-781-882-975.  
Sulphides, bis(halogenohydroxyaryl)-; S[R(OH)X]<sub>2</sub>. 383P, 1178.  
581-782-952.  
Disulphide, bis(2-hydroxyphenyl)-; (-SC<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>. 383P, 1178.  
581-783-975.  
Polysulphide, bis-(hydroxyaryl)-; S<sub>x</sub>(ROH)<sub>2</sub>.  
T as mothproofing agent. 383P, 1175.  
581-820-950.  
Xanthydrol, thio-; (C<sub>11</sub>H<sub>9</sub>S)OH.  
MT codling moth and mosquito larvae. 487, 1291.  
581-834-1021.  
Thiirane, 2-hydroxymethyl-; (C<sub>2</sub>H<sub>5</sub>S)CH<sub>2</sub>OH. (Oxypropylene sulfide).  
Fly spray. 112, 1389P.  
581-841-912.  
9-Fluorenol, 2-bromo-; Br(C<sub>9</sub>H<sub>7</sub>)OH.  
NT as mothproofing agent. 239.  
581-841-924.  
2-Naphthol, bromo-, CU; Br(C<sub>10</sub>H<sub>7</sub>)OH. (Bromo-β-naphthol).  
NT codling moth. 930.  
581-841-951.  
Phenol, p-bromo-; BrC<sub>6</sub>H<sub>4</sub>OH.  
HT codling moth larvae; T as mothproofing agent. 396P, 402P, 418P, 466P, 1175, 1176, 1291, 1465P.  
581-841-952.  
Phenol, 2-bromo-4-phenyl-; C<sub>11</sub>H<sub>9</sub>BrO.  
HT mosquito larvae. 487.  
581-841-1003.  
1-Propanol, 3-bromo-? BrCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH? (Propylene bromohydrin).  
NT *Chry*; *omphalus aurantii*. 2



- NT screwworms. 156.  
581-842-924.  
2-Naphthol, dibromo-,  $\text{Cu}$ ;  $\text{Br}_2\text{C}_{10}\text{H}_7\text{OH}$ .  
T as mothproofing agent. 870P, 1175.  
581-842-951.  
Phenol, 2,5-dibromo-,  $\text{Br}_2\text{C}_6\text{H}_3\text{OH}$ .  
T as mothproofing agent. 409P, 1175.  
581-842-951-1021.  
o-Cresol, 2,5-dibromo-,  $\text{Br}_2\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
MT *Culex quinquefasciatus*. 157.  
581-842-951-1021.  
o-Cresol, 4,6-dibromo-,  $\text{Br}_2\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
NT as mothproofing agent. 239.  
581-842-952-1021.  
o-Cresol, 2,4-dibromo- $\alpha$ -phenyl-,  
 $\text{CH}_3(\text{C}_6\text{H}_4)\text{C}_6\text{H}_3(\text{Br})_2\text{OH}$ . (Methane, 2-hydroxy-3,5-dibromo-diphenyl).  
T as mothproofing agent. 415P, 418P, 455P, 1175, 1179.  
581-843-951.  
Phenol, 2,4,6-tribromo-,  $\text{Br}_3\text{C}_6\text{H}_2\text{OH}$ .  
NT screwworms. 156.  
581-843-951.  
Phenol, pentabromo-,  $\text{C}_6\text{Br}_5\text{OH}$ .  
T screwworms at 0.33-0.87%. 156.  
581-847-924.  
Naphthol, polybromo-,  $\text{Cu}$ .  
T rodents. 1179, 1386P.  
581-847-952-1021.  
Methane, brominated hydroxy diaryl.  
T as mothproofing agent. 418P, 1175.  
581-847-953-1021.  
Methane, brominated hydroxy triaryl.  
T as mothproofing agent. 418P, 1175.  
581-851-924.  
1-Naphthol, 4-chloro-,  $\text{ClC}_{10}\text{H}_7\text{OH}$ .  
T as mothproofing agent. 94P, 402P, 1175.  
581-851-951.  
Phenol, m-chloro-,  $\text{ClC}_6\text{H}_4\text{OH}$ .  
T as mothproofing agent. 94P, 409P, 418P, 1175, 1457P.  
581-851-951.  
Phenol, o-chloro-,  $\text{ClC}_6\text{H}_4\text{OH}$ . (1-Chloro-2-hydroxybenzene).  
T houseflies and as mothproofing agent; ST screwworms. 94P, 156, 404P, 405P, 870P, 1002, 1175, 1362P.  
581-851-951.  
Phenol, p-chloro-,  $\text{ClC}_6\text{H}_4\text{OH}$ .  
T screwworms and as mothproofing agent. 156, 398P, 402P, 404P, 410P, 414P, 415P, 417P, 418P, 870P, 1175, 1176, 1393P, 1455P, 1463P, 1464P, 1465P.  
581-851-951.  
Phenols, chloro-,  $\text{Cu}$ .  
T as mothproofing agent. 413P, 1175.  
581-851-951-1001.  
Phenol, 4-chloro-2-isobutyl-,  $\text{C}_4\text{H}_9(\text{Cl})\text{C}_6\text{H}_4\text{OH}$ .  
T as mothproofing agent. 404P, 870P, 1175.  
581-851-951-1001.  
Phenol, p-chloro-isobutyl-,  $\text{Cu}$ ;  $\text{C}_4\text{H}_9(\text{Cl})\text{C}_6\text{H}_4\text{OH}$ .  
T as mothproofing agent. 870P, 1175.  
581-851-951-1003-1021.  
m-Cresol, 4-chloro-6-isopropyl-,  
 $(\text{CH}_3)(\text{Cl})(\text{CH}_2\text{CHCH}_3)\text{C}_6\text{H}_3\text{OH}$ . (1-Methyl-3-hydroxy-4-isopropyl-6-chlorobenzene).  
T as mothproofing agent. 404P, 1175.  
581-851-951-1003-1021.  
Thymol, p-chloro-,  $\text{ClC}_6\text{H}_3(\text{CH}_3)(\text{CH}(\text{CH}_3)_2)\text{OH}$ .  
(3-Methyl-4-chloro-6-isopropylphenol).  
ST screwworms at 0.67%. 156.  
581-851-951-1003-1021.  
Thymol, chloro-, and its isomers,  $\text{Cu}$ ;  
 $\text{CH}_3\text{C}_6\text{H}_3(\text{OH})\text{CH}(\text{CH}_3)_2(\text{Cl})$ .  
T weevils and other parasites of granaries and warehouses and as mothproofing agent.  
870P, 1175, 1250P.  
581-851-951-1021.  
m-Cresol, 4-chloro-,  $(\text{CH}_3)(\text{Cl})\text{C}_6\text{H}_3\text{OH}$ . (1-Hydroxy-3-methyl-4-chlorobenzene; 2-chloro-5-hydroxy-toluene).  
T screwworms and as mothproofing agent.  
402P, 870P, 1175.  
581-851-951-1021.  
m-Cresol, 6-chloro-,  $(\text{CH}_3)(\text{Cl})\text{C}_6\text{H}_3\text{OH}$ . (6-Chloro-3-cresol).  
T as mothproofing agent. 404P, 414P, 1175, 1465P.  
581-851-951-1021.  
o-Cresol, 2-chloro-,  $(\text{CH}_3)\text{C}_6\text{H}_3(\text{Cl})\text{OH}$ . (6-Chloro-2-cresol; 6-chloro-o-cresol).  
T as mothproofing agent. 125P, 404P, 409P, 870P, 1175, 1457P.  
581-851-951-1021.  
o-Cresol, 4-chloro-,  $(\text{CH}_3)\text{C}_6\text{H}_3(\text{Cl})\text{OH}$ . (1-Methyl-2-oxy-5-chlorobenzol; 2-methyl-4-chlorophenol; 1-hydroxy-2-methyl-4-chlorobenzene).  
T as mothproofing agent. 402P, 1175, 1455P.  
581-851-951-1021.  
o-Cresol, 5-chloro-,  $(\text{CH}_3)\text{C}_6\text{H}_3(\text{Cl})\text{OH}$ . (4-Chloro-2-cresol).  
T as mothproofing agent. 409P, 409P, 1175, 1176.  
581-851-951-1021.  
p-Cresol, 2-chloro-,  $(\text{CH}_3)\text{C}_6\text{H}_3(\text{Cl})\text{OH}$ . (3-Chloro-4-cresol; o-chloro-p-cresol; 4-methyl-2-chloro-1-oxybenzol).  
T as mothproofing agent. 94P, 414P, 870P, 1175, 1457P.  
581-851-951-1021.  
Cresol, chloro-,  $\text{Cu}$ ;  $\text{Cl}(\text{CH}_3)\text{C}_6\text{H}_4\text{OH}$ .  
ST *Pieris rapae*. 635.  
581-851-951-1022.  
Phenol, chlorodimethyl-,  $\text{Cu}$ ;  $\text{Cl}(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OH}$ .  
T as mothproofing agent. 638P, 1179.  
581-851-951-1177-1389.  
Phenol, chloro-, mercury sulfate,  $\text{Cu}$ ;  
 $[\text{ClC}_6\text{H}_4(\text{OH})\text{Hg}]_2\text{SO}_4$ ? 879P.  
581-851-952.  
Phenol, 2-chloro-4-phenyl-,  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3\text{O}$ .  
HT mosquito larvae; T as mothproofing agent.  
487, 1179, 1341P.  
581-851-952.  
Phenol, 2-chloro-6-phenyl-,  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OH})\text{Cl}$ .  
ST screwworms at 0.67%; NT codling moth. 156, 930.  
581-851-952.  
Phenol, 4-chloro-2-phenyl-,  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{OH})\text{Cl}$ .  
(4-Chloro-6-phenylphenol).  
ST screwworms at 0.67%. 156.  
581-851-952.  
Phenol, chlorophenyl-,  $\text{Cu}$ . (Biphenyl, chlorohydroxy; chlorohydroxydiphenyl).  
T as mothproofing agent. 1179, 1341P.  
581-851-952-1003.  
Phenol, 2-chloro-4-( $\alpha$ -phenylisopropyl)-;  
 $\text{HOOC}_6\text{H}_3(\text{Cl})\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . (p-( $\alpha$ -phenyl isopropyl)-o-chlorophenol). 1090P.  
581-851-952-1021.  
o-Cresol, 4-chloro- $\alpha$ -phenyl-,  $\text{CH}_3(\text{ClC}_6\text{H}_4\text{OH})\text{C}_6\text{H}_5$ .  
(Methane, 5-chloro-2-hydroxydiphenyl).  
T as mothproofing agent. 1179, 1456P.  
581-851-952-1022.  
o-Cresol, 4-chloro- $\alpha$ -p-tolyl-,  $\text{CH}_3(\text{ClC}_6\text{H}_4\text{OH})\text{C}_6\text{H}_4\text{CH}_3$ . (Methane, 5-chloro-2-hydroxy-4'-methyl-diphenyl).  
T as mothproofing agent. 1179, 1456P.  
581-851-961.  
Cyclohexanol, 2-chloro-,  $\text{ClC}_6\text{H}_{11}\text{OH}$ . (1-Chloro-2-hydroxycyclohexane). 280P.  
581-851-961-1021.  
Cyclohexanol, 2-chloro-5-methyl-,  $\text{ClC}_6\text{H}_9(\text{OH})\text{CH}_3$ . (1-Chloro-2-hydroxy-4-methylcyclohexane). 280P.  
581-851-1003.  
1-Propanol, 3-chloro-,  $\text{CH}_3\text{CHClCH}_2\text{OH}$ . (Tri-methylene chlorohydrin).  
NT rice weevil. 1180.  
581-851-1003.  
2-Propanol, 1-chloro-,  $\text{CH}_3\text{CHClCH}_2\text{OH}$ . (Propylene chlorohydrin).  
HT rice weevil. 1180.  
581-851-1011.  
Ethanol, 2-chloro-,  $\text{CH}_3\text{CHClCH}_2\text{OH}$ . (Ethylene chlorohydrin;  $\beta$ -chloroethyl alcohol).  
HT rice weevil; T codling moth larvae; NT red scale. 268, 555, 1180.  
581-852-924.  
1-Naphthol, 2,4-dichloro-,  $\text{Cl}_2\text{C}_{10}\text{H}_7\text{OH}$ .  
NT screwworms. 156.

- 581-852-951.  
Phenol, 2, 4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_4\text{OH}$ . (1-Hydroxy-2,4-dichlorobenzene).  
T as mothproofing agent; NT codling moth. 156, 398P, 402P, 404P, 410P, 413P, 414P, 415P, 417P, 430P, 435P, 436P, 469P, 870P, 930, 1175, 1176, 1393P, 1463P.
- 581-852-951.  
Phenol, 2,5-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OH}$ .  
T as mothproofing agent. 409P, 1175.
- 581-852-951.  
Phenol, 2,6-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OH}$ .  
T as mothproofing agent. 94P, 404P, 414P, 1175.
- 581-852-951-1021.  
Cresol, dichloro-, CU;  $\text{Cl}_2\text{C}_6\text{H}_3(\text{OH})\text{CH}_3$ . (Dichloro-cresol, crude).  
HT *Aphis rumicis*. 1376.
- 581-852-952.  
Phenol, *p*-(2,4-dichlorophenyl)-;  $\text{HOC}_6\text{H}_4\text{C}_6\text{H}_3(\text{Cl})_2$ .  
NT codling moth. 930.
- 581-852-952-1021.  
Phenol, 4-chloro-2-(*o*-chlorobenzyl)-;  $\text{ClC}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_4\text{Cl})\text{OH}$ .  
T as mothproofing agent. 1175, 1179, 1455P, 1456P, 1464P.
- 581-852-952-1021.  
*o*-Cresol, 2,4-dichloro-*o*-phenyl-;  $\text{CH}_3(\text{C}_6\text{H}_3\text{Cl}_2)\text{C}_6\text{H}_4(\text{Cl})\text{OH}$ . (Methane, 3,5-dichloro-2-hydroxy diphenyl).  
T as mothproofing agent. 415P, 418P, 1175.
- 581-853-951.  
Phenol, 2,4,5-trichloro-;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OH}$ .  
T as mothproofing agent; NT screwworms. 156, 404P, 410P, 870P, 1175, 1463P.
- 581-853-951.  
Phenol, trichloro-, CU;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OH}$ .  
T mosquito larvae; NT codling moth larvae. 487, 556.
- 581-853-951-1011.  
Benzyl alcohol, *o*-trichloromethyl-;  $\text{C}_6\text{H}_5\text{CH}(\text{CCl}_3)\text{OH}$ . (Trichloromethylphenylcarbinol). 851P.
- 581-853-951-1021.  
Benzyl alcohol, trichloro-, CU;  $\text{Cl}_3\text{C}_6\text{H}_2\text{CH}_2\text{OH}$ .  
T as mothproofing agent. 413P, 1175, 1393P.
- 581-853-953-1022.  
Phenol, 4-chloro-2,6-bis(*o*-chlorobenzyl)-;  $\text{ClC}_6\text{H}_4(\text{CH}_2\text{C}_6\text{H}_4\text{Cl})_2\text{OH}$ . (Phenol, 2,6-bis(*o*-chlorobenzyl)-1)-4-chloro-; 2,6-bis(*o*-chlorobenzyl)-4-chlorophenol).  
T as mothproofing agent. 1176, 1179, 1455P, 1456P.
- 581-853-1001.  
2-Propanol, 1,1,1-trichloro-2-methyl-;  $(\text{CH}_3)_2\text{C}(\text{OH})\text{CCl}_3$ . (1,1,1-Trichloro-*tert*-butyl alcohol; chlorotone; chlorbutol; acetonechloroform; chlorbutanol).  
T houseflies; ST rice weevil. 851P, 1180, 1276.
- 581-853-1003.  
2-Propanol, 1,1,1-trichloro-;  $\text{CCl}_3\text{CH}(\text{OH})\text{CH}_3$ . 851P.
- 581-854-951.  
Phenol, 2,3,4,6-tetrachloro-;  $\text{Cl}_4\text{C}_6\text{H}_2\text{OH}$ .  
MT mosquito larvae; NT *Melanoplus m. mexicanus*. 487, 488, 1150.
- 581-854-951.  
Phenol, tetrachloro-, CU;  $\text{Cl}_4\text{C}_6\text{H}_2\text{OH}$ .  
T as mothproofing agent. 40P, 1176.
- 581-854-951-1021.  
Cresol, tetrachloro-, CU;  $\text{Cl}_4\text{C}_6(\text{CH}_3)\text{OH}$ .  
T as mothproofing agent. 40P, 1176.
- 581-854-952-1021.  
*o*-Cresol, 4-chloro-*o*-(2,4,5-trichlorophenyl)-;  $\text{CH}_3(\text{C}_6\text{H}_3\text{Cl}_3)\text{C}_6\text{H}_4(\text{Cl})\text{OH}$ . (Methane, 2,4,5,5'-tetrachloro-2'-hydroxydiphenyl).  
T as mothproofing agent. 1179, 1456P.
- 581-854-952-1021.  
*o*-Cresol, 2,4-dichloro-*o*-(2,6-dichlorophenyl)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{CH}_2\text{C}_6\text{H}_3(\text{Cl})_2\text{OH}$ . (Methane, 2,6,3',5'-tetrachloro-2'-hydroxydiphenyl).  
T as mothproofing agent. 1179, 1394P.
- 581-854-952-1021.  
Cresol, *o*-phenyl-tetrachloro-, CU. (Methane, tetra-chlorohydroxydiphenyl).  
T as mothproofing agent. 1179, 1456P.
- 581-855-951.  
Phenol, pentachloro-;  $\text{Cl}_5\text{C}_6\text{OH}$ .  
T silkworm, *Lyctus* species, and as mothproofing agent; MT *Carpocapsa pomonella*; NT *Melanoplus m. mexicanus*. 26, 40P, 156, 561, 1150, 1176, 1291, 1376.
- 581-855-952-1021.  
Cresol, pentachloro-*o*-phenyl-, CU. (Methane, pentachlorohydroxydiphenyl).  
T as mothproofing agent. 1179, 1394P.
- 581-857-951-1003-1021.  
Cresol, isopropyl-chloro-, CU;  $\text{CH}_3(\text{Cl})\text{C}_6\text{H}_4\text{OH}[\text{CH}(\text{CH}_3)_2]_2$ ? (Chlorinated crude isopropylcresol).  
T weevils and other parasites of granaries and warehouses. 1250P.
- 581-857-952-1021.  
Cresol, *o*-aryl-chloro-, CU. (Methane, chlorinated hydroxy diaryl).  
T as mothproofing agent. 418P, 1175.
- 581-857-953-1021.  
Cresol, chloro-*o*-diaryl-, CU. (Methane, chlorinated hydroxy triaryl).  
T as mothproofing agent. 418P, 1175.
- 581-861-951.  
Phenol, *p*-fluoro-;  $\text{FC}_6\text{H}_4\text{OH}$ .  
T as mothproofing agent. 414P, 1175, 1462P.
- 581-861-953.  
1-Octadecanol-fluoro-, CU;  $\text{F}(\text{C}_{17}\text{H}_{35})\text{OH}$ . (Fluorooctadecyl alcohol). 345P.
- 581-865-924-951-1021.  
Naphthol, methylarylaso-, CU;  $\text{CH}_3\text{R}^1\text{N}:\text{NR}^2\text{OH}$ . The general formula above where  $\text{R}^1$  and  $\text{R}^2$  denote interchangeable homocyclic aryl nuclei,  $\text{R}^1$  being a single benzene ring and  $\text{R}^2$  a naphthyl nucleus. 1435P.
- 581-871-951.  
Phenol, *m*-iodo-;  $\text{IC}_6\text{H}_4\text{OH}$ .  
T goldfish. 110, 547.
- 581-871-951.  
Phenol, *o*-iodo-;  $\text{IC}_6\text{H}_4\text{OH}$ .  
T goldfish. 110, 547.
- 581-871-951.  
Phenol, *p*-iodo-;  $\text{IC}_6\text{H}_4\text{OH}$ .  
T goldfish. 110, 547.
- 581-871-951-1003-1021.  
Thymol, 4-iodo-;  $\text{CH}_3(\text{C}_6\text{H}_4)_2\text{C}_6\text{H}_3(\text{I})\text{OH}$ . (Aristol, thymol iodide; dithymol diiodide).  
ST clothes lice. 110, 1003, 1011.
- 581-871-951-1021.  
*o*-Cresol, iodo-, CU;  $\text{IC}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (Momiolo-orthocresol).  
T clothes lice. 110, 1011.
- 581-873-951.  
Phenol, 2,4,6-triiodo-;  $\text{I}_3\text{C}_6\text{H}_2\text{OH}$ . (Triiodophenol).  
T culexine mosquito larvae; NT screwworms and codling moth larvae. 110, 156, 487, 1291.
- 581-881-924.  
Naphthols, *p*-halogenated, CU.  
T as mothproofing agent. 410P, 1175.
- 581-881-951.  
Phenols, *p*-halogenated, CU.  
T as mothproofing agent. 402P, 410P, 417P, 1175.
- 581-887-951.  
Phenols, halogenated, CU.  
T as mothproofing agent. 456P, 1179.
- 581-910.  
9-Anthrol;  $(\text{C}_{10}\text{H}_7)\text{OH}$ . (Anthranol; 9-hydroxy-anthracene). 584P.
- 581-912.  
9-Fluorenil;  $\text{C}_{15}\text{H}_9\text{OH}$ . (Fluorene alcohol; diphenylenecarbinol).  
ST corn borer. 1120.
- 581-924.  
1-Naphthol;  $\text{C}_{10}\text{H}_7\text{OH}$ . (*o*-Naphthol; 1-hydroxy-naphthalene).  
HT *Aphis rumicis*; T as mothproofing agent; ST screwworms; NT clothes moths (739). 156, 404P, 739, 870P, 1175, 1176, 1179, 1376, 1388.
- 581-924.  
2-Naphthol;  $\text{C}_{10}\text{H}_7\text{OH}$ . (*o*-Naphthol; 2-hydroxy-naphthalene).  
T termites and *Tineola bisellialis*. 162, 404P, 413P, 430P, 436P, 599, 870P, 1137P, 1138P, 1175, 1176, 1179, 1388P, 1393P, 1407.

- 581-924.  
Naphthols, CU;  $C_{10}H_7OH$ .  
T rodents and insects. 1179, 1388P.
- 581-924.  
1-Naphthol, 5,6,7,8-tetrahydro-;  $C_{10}H_{15}O$ .  
( $\alpha$ -Naphthol, 5,6,7,8-tetrahydride;  $\alpha$ -tetrahydro- $\alpha$ -naphthol).  
HT mosquito larvae. 487.
- 581-924.  
2-Naphthol,  $\alpha$ -tetrahydro-, CU. ( $\alpha$ -Tetrahydro- $\beta$ -naphthol).  
T as mothproofing agent. 404P, 870P, 1175.
- 581-924-952-1021.  
Naphthalenemethanol,  $\alpha,\alpha$ -diphenyl-;  
( $C_6H_5$ )<sub>2</sub>( $C_{10}H_7$ )COH. (Diphenyl  $\alpha$ -naphthyl carbinol).  
NT *Bombyx mori* larvae. 550.
- 581-930-1023.  
Bornol;  $C_{10}H_{18}O$ .  
HT codling moth larvae; T *Lucilia cuprina* larvae and as mothproofing agent; attractant for oriental peach moth. 508, 849, 1137, 1175, 1291.
- 581-951.  
Phenol;  $C_6H_5OH$ . (Carbolic acid; hydroxybenzene; phenylic acid; phenic acid; phenyl hydrate).  
HT *Lucilia serricata* larvae; T *Aphis rumicis*, Japanese beetle, and as mothproofing agent; NT *Melanoplus m. mexicanus*. 28, 94P, 175, 401P, 404P, 405P, 413P, 494P, 555, 870P, 1077, 1101P, 1150, 1152, 1175, 1176, 1179, 1210P, 1231P, 1268, 1388P, 1396, 1469P.
- 581-951-961.  
Phenol,  $\alpha$ -cyclohexyl-;  $C_6H_{11}C_6H_4OH$ .  
HT *Carpocapsa pomonella* larvae; T houseflies; NT *Melanoplus m. mexicanus*. 112, 156, 651P, 1150, 1291.
- 581-951-961.  
Phenol,  $p$ -cyclohexyl-;  $C_6H_{11}C_6H_4OH$ .  
NT screwworms and *Melanoplus m. mexicanus*. 156, 1150.
- 581-951-999.  
2-Butanol, 3-methyl-2-phenyl-;  
( $CH_3$ )<sub>2</sub>CHC( $C_6H_5$ )( $CH_3$ )OH. ( $\alpha$ -Isopropyl- $\alpha$ -methyl benzyl alcohol).  
HT codling moth larvae. 1291.
- 581-951-999.  
Phenol,  $p$ -( $\alpha,\alpha$ -dimethylpropyl)-;  
 $CH_3CH_2C(CH_3)_2C_6H_4OH$ . ( $p$ -*tert*-Amylphenol).  
T houseflies and T screwworms at 0.17-0.33%. 112, 156, 700P.
- 581-951-1001.  
Phenol,  $p$ -butyl-;  $C_4H_9C_6H_4OH$ . (4-*n*-Butyl phenol).  
T as mothproofing agent. 404P, 1175.
- 581-951-1001.  
Phenol, isobutyl-, CU;  $C_4H_9C_6H_4OH$ .  
T as mothproofing agent. 870P, 1175.
- 581-951-1001.  
Phenol,  $p$ -2-(2-methylpropyl)-;  $C_4H_9C_6H_4OH$ . ( $p$ -*tert*-Butylphenol).  
NT European corn borer. 1122.
- 581-951-1003-1021.  
Carvacrol; ( $CH_3$ )<sub>2</sub>CHC( $C_6H_5$ )( $CH_3$ )OH.  
T houseflies, *Aphis rumicis*, and *Lucilia cuprina* larvae. 849, 1153, 1276.
- 581-951-1003-1021.  
Thymol; ( $CH_3$ )<sub>2</sub>CHC( $C_6H_5$ )( $CH_3$ )OH. (Isopropyl meta-cresol, 1,4-methylmethoxyethylphenol (3); methylpropylphenol, thyme camphor, thymic acid, 3-oxy-1-methyl-4-isopropylbenzol; 5-methyl-2-isopropylphenol; 3-hydroxy- $p$ -cymene).  
T *Lucilia cuprina*, mosquitoes, screwworms, and as mothproofing agent. 156, 404P, 643A, 849, 870P, 1175, 1176, 1261P.
- 581-951-1003-1021.  
 $m$ -Cresol, 4-isopropyl-; ( $CH_3$ )<sub>2</sub>CHC( $C_6H_5$ )( $CH_3$ )OH. (1-Methyl-3-hydroxy-6-isopropyl-benzene).  
T as mothproofing agent. 404P, 1175.
- 581-951-1003-1021.  
Phenol, methyl isopropyl-, CU; ( $CH_3$ )<sub>2</sub>CHC( $C_6H_5$ )( $CH_3$ )OH.  
NT oriental peach moth. 508.
- 581-951-1003-1030.  
Cinnamyl alcohol;  $C_6H_5CH:CHCH_2OH$ . (Cinnamic alcohol).  
T *Diabrotica duodecimpunctata*. 1012.
- 581-951-1011.  
Ethanol, 2-phenyl-;  $C_6H_5CH_2CH_2OH$ . (Phenyl ethyl alcohol).  
T Japanese beetle. 949A.
- 581-951-1011-1021.  
Benzyl alcohol,  $\alpha,\beta$ -dimethyl-;  $CH_3C_6H_4CH(CH_3)OH$ .  
HT codling moth larvae. 1291.
- 581-951-1021.  
 $m$ -Cresol;  $CH_3C_6H_4OH$ . ( $m$ -Methylphenol;  $m$ -hydroxy-toluene).  
HT *Aphis rumicis*; T screwworms and clothes moths. 156, 404P, 870P, 1175, 1376.
- 581-951-1021.  
 $p$ -Cresol;  $CH_3C_6H_4OH$ . ( $p$ -Methylphenol;  $o$ -hydroxytoluene).  
HT *Aphis rumicis*; T clothes moths, Japanese beetle and screwworms. 156, 401P, 405P, 494, 555, 723, 870P, 1175 1376.
- 581-951-1021.  
 $p$ -Cresol;  $CH_3C_6H_4OH$ . ( $p$ -Methylphenol;  $p$ -hydroxytoluene).  
HT *Aphis rumicis*; T screwworms and clothes moths. 94P, 156, 404P, 408P, 413P, 418P, 870P, 1175, 1376.
- 581-951-1021.  
Cresol, CU;  $CH_3C_6H_4OH$ . (Cresylic acid (ortho-, meta-, and para-isomers); hydroxytoluene; methylphenol; oxytoluene; Lysol).  
T *Aphis rumicis*, codling moth larvae, and as mothproofing agent. 508, 548, 555, 1024, 1025, 1152, 1176, 1231P.
- 581-951-1021.  
Benzyl alcohol;  $C_6H_5CH_2OH$ . (Phenylcarbinol;  $\alpha$ -hydroxytoluene).  
T *Aphis rumicis*, *Leptinotarsa decemlineata*, and clothes moths; NT red scale. 268, 407P, 413P, 868P, 1009, 1152, 1175, 1455P.
- 581-951-1021-1177-1303.  
Cresol, cyanomercuri-, CU;  $HO(CH_3)C_6H_4HgCN$ . 379P.
- 581-951-1021-1177-1405.  
 $o$ -Cresol, thiocyanomercuri-, CU;  $HO(CH_3)C_6H_4HgSCN$ . 1178, 1237P.
- 581-951-1022.  
Benzyl alcohol,  $p$ -methyl-;  $CH_3C_6H_4CH_2OH$ .  
T as mothproofing agent. 1175, 1455P.
- 581-951-1022.  
2,4-Xylenol-; ( $CH_3$ )<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH. ( $as$ - $m$ -Xylenol)  
T as mothproofing agent; NT *Pieris rapae*. 408, 635, 1175.
- 581-951-1022.  
3,4-Xylenol-; ( $CH_3$ )<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH. (1,3,4-Xylenol).  
NT *Pieris rapae*. 635.
- 581-951-1022.  
2,6-Xylenol-; ( $CH_3$ )<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH. (2,6-Dimethylphenol; *vic*- $m$ -xylenol).  
HT *Carpocapsa pomonella* larvae. 1291.
- 581-951-1022.  
3,5-Xylenol-; ( $CH_3$ )<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH. (*sym*-Xylenol; 5-hydroxy-1,3-dimethylbenzene).  
T screwworms at 0.33-0.67% and as mothproofing agent. 156, 404P, 870P, 1175.
- 581-951-1027.  
Phenol,  $p$ -alkylated, CU.  
T as mothproofing agent. 408P, 1175.
- 581-951-1109-1182-1303.  
Phenol, ammonium nickel cyanide complex. (Ammonium nickel cyanide phenol).  
NT *Leptinotarsa decemlineata*. 1008.
- 581-951-1177-1405.  
Phenols, thiocyanomercuri-, CU;  $HOC_6H_4HgSCN$ . 1178, 1237P.
- 581-952.  
Phenol,  $o$ -phenyl-;  $C_6H_5C_6H_4OH$ . ( $o$ -Hydroxydiphenyl;  $o$ -phenyl phenol).  
T screwworms at 0.33-0.67%. 156.
- 581-952.  
Phenol,  $p$ -phenyl-;  $C_6H_5C_6H_4OH$ . ( $p$ -Hydroxydiphenyl).  
ST screwworms at 0.67%. 156.
- 581-952.  
Phenol, phenyl-, CU;  $C_6H_5C_6H_4OH$ . (Hydroxy biphenyl; hydroxy diphenyl).

- T as mothproofing agent. 412P, 1175, 1461P.  
581-952-1003.  
Phenol, 5-isopropyl-2-phenyl-;  $C_6H_5C_6H_5(OH)C_3H_7$ .  
(2-Hydroxy-5-isopropyl-diphenyl). 210P.
- 581-952-1003-1021.  
m-Cresol, 4-( $\alpha$ -phenylisopropyl)-;  
 $HOC_6H_5(CH_3)C(CH_3)_2C_6H_5$ . (Para-( $\alpha$ -phenyl isopropyl)-meta-cresol). 1090P.
- 581-952-1003-1081.  
o-Cresol, 4-( $\alpha$ -phenylisopropyl)-;  
 $HOC_6H_5(CH_3)C(CH_3)_2C_6H_5$ . (Para-( $\alpha$ -phenyl isopropyl)-ortho-cresol). 1090P.
- 581-952-1021.  
o-Cresol,  $\alpha$ -phenyl-;  $C_6H_5CH_2C_6H_5.OH$ . (o-Benzyl-phenol; methane, 2-hydroxydiphenyl).  
T clothes moths and T screwworms at 0.33-0.67%.  
156, 418P, 870P, 1175.
- 581-952-1021.  
p-Cresol,  $\alpha$ -phenyl-;  $C_6H_5CH_2C_6H_5.OH$ . (p-Benzyl-phenol; p-hydroxydiphenylmethane).  
T screwworms at 0.17-0.33%. 156, 404P, 870P, 1175.
- 581-952-1021.  
Benzohydrol;  $(C_6H_5)_2CHOH$ . (Diphenylcarbinol; benzhydrol; hydroxydiphenylmethane).  
HT corn borer; T clothes moths. 413P, 1120, 1175.
- 581-952-1027.  
Phenol, alkyl phenyl-, CU;  $C_6H_5C_6H_5(R).OH$ .  
(Alkylhydroxybiphenyls). 112, 228P, 229P, 943.
- 581-953-1011-1193-1291.  
Phosphonium chloride, hydroxyethyltriphenyl-;  
 $(C_6H_5)_3(HOC_2H_4)PCL$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 581-953-1021.  
Benzyl alcohol,  $\alpha,\alpha$ -diphenyl-;  $(C_6H_5)_2COH$ .  
(Triphenyl carbinol).  
NT *Bombyx mori* larvae. 156, 559.
- 581-957-1003-1021.  
Terpineol;  $C_{10}H_{17}OH$ . (*dl*-1-p-Menthen-8-ol?).  
T *Aphis rumicis*; attractant for oriental peach moth; NT wireworms at 468.0 mg./L. 508, 846, 1152.
- 581-961.  
Cyclohexanol;  $C_6H_{11}OH$ . (Hexahydrophenol; hexalin).  
T *Aphis rumicis* and *Lucilia cuprina* larvae;  
ST screwworms at 0.67%. 156, 949, 1152.
- 581-961-1003-1021.  
Menthol;  $C_{10}H_{18}OH$ . (1-3-p-Menthanol; l-hexahydrothymol).  
T clothes moths and oriental peach moth;  
NT *Chrysomphalus aurantii*. 268, 1094, 1137P, 1175.
- 581-975-1021.  
Methanes, hydroxydiaryl-.  
T as mothproofing agent. 402P, 414P, 415P, 417P, 434P, 438P, 439P, 442P, 443P, 447P, 448P, 449P, 451P, 453P, 454P, 455P, 457P, 458P, 470P, 1175, 1179, 1394P, 1454P, 1455P, 1456P, 1458P, 1459P, 1460P, 1463P, 1465P, 1466P, 1568P.
- 581-975-1021.  
Methanes, hydroxytriaryl-.  
T as mothproofing agent. 94P, 402P, 408P, 409P, 410P, 414P, 415P, 417P, 434P, 438P, 439P, 442P, 443P, 447P, 448P, 449P, 451P, 453P, 454P, 455P, 457P, 458P, 1175, 1179, 1394P, 1454P, 1455P, 1456P, 1458P, 1459P, 1460P, 1463P, 1465P, 1466P, 1468P.
- 581-980.  
Gossypol;  $C_{30}H_{48}OH?$  (Gossypyl alcohol?).  
NT woolly aphids and Mexican bean beetle. 117.
- 581-983.  
1-Octadecanol;  $CH_3(CH_2)_{16}CH_2OH$ . (n-Octadecyl alcohol).  
NT screwworms. 156.
- 581-989.  
Dodecyl alcohol,  $CH_3(CH_2)_{10}CH_2OH$ .  
MT houseflies. 107P, 112.
- 581-991.  
1-Octanol, 3,7-dimethyl-;  $(CH_3)_2C_8H_{17}CH(CH_3)C_2H_5$ .  
HT codling moth larvae. 1291.
- 581-991-1030.  
Rhodinol;  $CH_3CCH_3:CHCH_2CH_2CHCH_2CH_2CH_2OH$ .  
(2,6-Dimethylocten-2-ol-8).  
ST wireworms at 450.0 mg./L. 846.
- 581-991-1030.\*  
Citronellol;  $CH_3:C(CH_3)(CH_3)CH(CH_3)C_2H_5.OH$ .  
HT codling moth larvae; T houseflies. 1276, 1291.
- 581-991-1033.  
Geraniol;  $(CH_3)_2C:CHCH_2CH_2C(CH_3)(OH)CH_2:CH_3$ . (3,7-Dimethyl-2,6-octadien-1-ol).  
HT codling moth larvae; T houseflies, *Lucilia cuprina*, and as attractant for oriental peach moth. 508, 849, 1276, 1291.
- 581-991-1033.  
Linalool;  $(CH_3)_2C:CHCH_2CH_2C(CH_3)(OH)CH_2:CH_3$ .  
HT codling moth larvae; T houseflies and as attractant for oriental peach moth. 508, 1276, 1291.
- 581-992.  
Nonyl alcohol;  $CH_3(CH_2)_7CH_2OH$ . (1-Nonanol).  
NT rice weevil. 1180.
- 581-993.  
Octyl alcohol;  $CH_3(CH_2)_6CH_2OH$ . (1-Octanol; heptylcarbinol).  
T aphids; NT rice weevil. 768, 1152, 1180.
- 581-993.  
*dl*-2-Octanol;  $CH_3CH(OH)CH_2CH_2CH_2CH_2CH_3$ .  
(*dl*-sec-Octyl alcohol).  
HT rice weevil. 1180.
- 581-995.  
1-Butanol, 1-propyl-;  $(CH_3CH_2CH_2)_2CHOH$ .  
(Di-n-propyl carbinol).  
MT rice weevil. 1180.
- 581-995.  
3-Pentanol, 2,4-dimethyl-;  $(CH_3)_2CHCH(OH)CH_2CH_3$ .  
(Diisopropyl carbinol(?)).  
NT red scale. 268.
- 581-995.  
3-Pentanol, 3-ethyl-;  $(CH_3CH_2)_2COH$ . (Triethyl carbinol).  
HT rice weevil. 1180.
- 581-995.  
Heptyl alcohol;  $CH_3(CH_2)_5CH_2OH$ . (1-Heptanol).  
NT rice weevil. 1180.
- 581-997.  
1-Butanol, 1,1-dimethyl-;  $(CH_3)_2C(OH)CH_2CH_2CH_3$ .  
(Dimethyl n-propyl carbinol).  
HT rice weevil. 1180.
- 581-997.  
Hexyl alcohol;  $CH_3(CH_2)_4CH_2OH$ . (1-Hexanol; amylcarbinol).  
NT rice weevil. 1180.
- 581-999.  
Amyl alcohol;  $CH_3(CH_2)_4CH_2OH$ .  
ST red scale; NT rice weevil. 268, 1180.
- 581-999.  
2-Pentanol;  $CH_3CH(OH)CH_2CH_2CH_3$ . (sec-Amyl alcohol).  
HT rice weevil; NT *Chrysomphalus aurantii*.  
268, 1180.
- 581-999.  
1-Butanol, 2-methyl-;  $CH_3CH_2CH(CH_3)CH_2OH$ .  
(sec-Butyl carbinol; pri-act-amy alcohol).  
HT rice weevil; ST red scale. 268, 1180.
- 581-999.  
Isoamyl alcohol;  $(CH_3)_2CHCH_2CH_2CH_2OH$ . (Isobutyl-carbinol; 3-methyl-1-butanol).  
HT rice weevil; T codling moth; ST wireworms.  
268, 846, 915, 1180.
- 581-999.  
tert-Amyl alcohol;  $(CH_3)_3C(OH)CH_2CH_3$ .  
(2-Methyl-2-butanol; dimethylethylcarbinol).  
HT rice weevil; T *Lucilia cuprina* larvae;  
ST wireworms; NT *Chrysomphalus aurantii*.  
268, 846, 849, 1180.
- 581-999.  
2-Butanol, 3-methyl-;  $CH_3CH(OH)CH(CH_3)_2$ .  
(Methyl isopropyl carbinol).  
NT *Chrysomphalus aurantii*. 268.
- 581-999.  
3-Pentanol;  $(C_2H_5)_2CHOH$ . (Diethyl carbinol).  
HT rice weevil. 1180.

- 581-1001.  
Butyl alcohol;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ . (1-Butanol; propylcarbinol).  
T clothes moths; NT rice weevil. 818P, 398P, 402P, 407P, 868P, 1175, 1180, 1242P, 1400P.
- 581-1001.  
Isobutyl alcohol;  $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$ . (2-Methyl-1-propanol; isopropylcarbinol).  
HT rice weevil; ST wireworms. 846, 1180.
- 581-1001.  
sec-Butyl alcohol;  $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$ . (2-Butanol; ethylmethylcarbinol).  
HT rice weevil; ST red scale, 268, 1180.
- 581-1001.  
tert-Butyl alcohol;  $(\text{CH}_3)_3\text{COH}$  (2-Methyl-2-propanol; trimethylcarbinol).  
HT rice weevil; NT wireworms. 846, 1180.
- 581-1003.  
Propyl alcohol;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ . (1-Propanol; ethylcarbinol).  
MT rice weevil; NT *Chrysomphalus aurantii*. 268, 1180.
- 581-1003.  
Isopropyl alcohol;  $\text{CH}_3\text{CHOHCH}_3$ . (2-Propanol; dimethylcarbinol).  
HT rice weevil. 1180.
- 581-1003-1030.  
Allyl alcohol;  $\text{CH}_2=\text{CHCH}_2\text{OH}$ . (2-Propen-1-ol).  
HT rice weevil; T *Aphis rumicis* and *Leptinotarsa decemlineata*; ST red scale. 268, 1009, 1153, 1180.
- 581-1003-1261.  
Glycerol di-metaarsenite;  $\text{CH}(\text{OH})[\text{CH}_2\text{OAsO}]_2$ . 1132P.
- 581-1011.  
Ethyl alcohol;  $\text{CH}_3\text{CH}_2\text{OH}$ . (Ethanol; methylcarbinol; alcohol; spirit of wine).  
T *Lucilia cuprina* larvae; MT rice weevil; ST red scale. 175, 268, 849, 1180.
- 581-1021.  
Methyl alcohol;  $\text{CH}_3\text{OH}$ . (Methanol; carbinol; wood alcohol).  
T clothes moths and *Lucilia cuprina* larvae; ST red scale; NT rice weevil. 268, 768, 807P, 849, 1179, 1180.
- 581-1027.  
Primary aliphatic alcohols, CU.  
(Having from 10 to 14 carbon atoms). 1126P.
- 582-591-854-952.  
Ether, bis(dichloro-4-hydroxyphenyl)-;  $(\text{HOC}_6\text{H}_4\text{Cl})_2\text{O}$ . 360P.
- 582-591-872-952.  
Phenol, o,o'-oxybis[4-iodo-;  $(\text{HOC}_6\text{H}_4\text{I})_2\text{O}$ . (Ether, bis(2-hydroxy-5-iodophenyl)-; bis(2-hydroxy-5-iodophenyl)-oxide). 110, 1035P.
- 582-591-952-1027.  
Aliphatic alcohols, oxy derivatives, CU.  
T as fly spray. 228P.
- 582-591-975.  
Ether, bis(hydroxyaryl)-, CU;  $(\text{HOR})_2\text{O}$ . 360P.
- 582-591-1012.  
Diethylene glycol;  $\text{O}(\text{CH}_2\text{CH}_2\text{OH})_2$ . (2,2'-Oxy-diethanol; 2,2'-dihydroxyethyl ether). 1202P.
- 582-592-625-952-1022.  
Pinorensinol;  $\text{C}_8\text{H}_{16}\text{O}_8$ .  
NT when used as a synergist with pyrethrum against houseflies. 617.
- 582-625-730-950-1289.  
Morphine sulphate;  $(\text{C}_{17}\text{H}_{19}\text{NO}_5)_2\text{H}_2\text{SO}_4$ .  
NT Japanese beetle. 1008.
- 582-665-841-952.  
Resorcinol, [4-(p-bromophenyl)-;  $\text{BrC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_4(\text{OH})_2$ . (2,4-Dihydroxy-4'-bromoazobenzene).  
T mosquito larvae; ST greenhouse red spider at 2%; NT southern army worm at 4%. 487, 488, 1438P, 1481.
- 582-665-852-924-951.  
2-Naphthol, 1-(3,5-dichloro-2-hydroxyphenyl)-;  $\text{HOC}_6\text{H}_3\text{Cl}_2\text{N}:\text{NC}_6\text{H}_4(\text{Cl})_2\text{OH}$ .  
HT mosquito larvae. 487.
- 582-665-882-952.  
Resorcinol, 4-(2,5-dichlorophenyl)-;  $(\text{HO})_2\text{C}_6\text{H}_3\text{N}:\text{NC}_6\text{H}_3\text{Cl}_2$ .  
MT mosquito larvae. 487, 653.
- 582-665-952.  
Phenol, p,p'-azodi-;  $\text{HOC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_4\text{OH}$ . (p,p'-Azobisphenol).  
NT screwworms. 156, 1120.
- 582-665-952.  
Resorcinol, 4-phenylazo-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_3(\text{OH})_2$ .  
NT mosquito larvae. 487.
- 582-665-952.  
Resorcinol, phenylazo-, CU;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_3(\text{OH})_2$ . (Benzeneazoresorcinol).  
NT screwworms. 156.
- 582-665-953.  
Resorcinol, 2,4-bis(phenylazo)-;  $(\text{HO})_2\text{C}_6\text{H}_3\text{N}(\text{NC}_6\text{H}_5)_2$ .  
NT mosquito larvae. 487.
- 582-670-1012-1021.  
Cyanamide, bis(2-hydroxyethyl)-;  $(\text{CH}_2\text{OHCH}_2)_2\text{N}:\text{NCN}$ . ( $\beta,\beta'$ -Dihydroxydiethyl cyanamide). 668P.
- 582-671-1001.  
1,3-Propanediol, 2-amino-2-methyl-;  $\text{CH}_2\text{OHC}(\text{CH}_3)-(\text{NH}_2)\text{CH}_2\text{OH}$ .  
NT European corn borer. 1122.
- 582-681-975.  
Amine, bis(hydroxyaryl)-, CU, 360P.
- 582-681-1012.  
Ethanol, 2,2'-iminodi-;  $(\text{HOCH}_2\text{CH}_2)_2\text{NH}$ .  
T *Lucilia cuprina* larvae. 849.
- 582-682-952-1011.  
Ethylendiamine, N,N'-bis (salicyl-);  $\text{HOC}_6\text{H}_4\text{NHCH}_2\text{CH}_2\text{NHC}_6\text{H}_4\text{OH}$ . (N,N'-Disalicyl-ethylene-diamine).  
NT corn borer. 1120.
- 582-691-961-1022.  
Ethanol, 2,2'-cyclohexyliminodi-;  $\text{C}_6\text{H}_{11}\text{N}(\text{C}_6\text{H}_4\text{OH})_2$ . (Diethanolecyclohexylamine). 377P.
- 582-691-975-1027.  
Amine, alkyl-bis(hydroxyaryl)-. 360P.
- 582-702-781-975.  
Sulphides, bis(cyanohydroxyaryl)-. 383P, 1178.
- 582-730-950-1011-1021-1030.  
Cupreine, its salts and other derivatives;  $\text{C}_{12}\text{H}_{18}\text{O}_8\text{N}_2$ .  
T as mothproofing agent. 744P, 1176.
- 582-781-842-952-1021.  
p-Cresol, 2,2'-thiobis[6-bromo-;  $[\text{BrC}_6\text{H}_3(\text{OH})-(\text{CH}_3)]_2\text{S}$ . (Sulphide, bis(3-bromo-2-hydroxy-5-methylphenyl)-. 383P, 1178.
- 582-781-844-952.  
Phenol, o,o'-thiobis[4,6-dibromo-;  $[\text{Br}_2\text{C}_6\text{H}_3(\text{OH})]_2\text{S}$ . (Sulphide, bis(3,5-dibromo-2-hydroxyphenyl)-).  
T staphylococci and as mothproofing agent. 383P, 1175, 1178.
- 582-781-844-952.  
Phenol, p,p'-thiobis[3,5-dibromo-;  $[\text{Br}_2\text{C}_6\text{H}_3(\text{OH})]_2\text{S}$ . (Sulphide, bis(3,5-dibromo-4-hydroxyphenyl)-).  
T as mothproofing agent. 383P, 1178.
- 582-781-847-952.  
Phenol, o,o'-thiobis[3,4,6-tribromo-;  $[\text{Br}_3\text{C}_6\text{H}_2(\text{OH})]_2\text{S}$ . (Sulphide, bis(2-hydroxy-3,5,6-tribromophenyl)-).  
T staphylococci. 383P, 1178.
- 582-781-852-952.  
Phenol, o,o'-thiobis[4-chloro-;  $[\text{ClC}_6\text{H}_3(\text{OH})]_2\text{S}$ .  
Sulphide, bis(5-chloro-2-hydroxyphenyl)-).  
T *Bacillus pyocyaneus* and as mothproofing agent. 383P, 1175, 1178.
- 582-781-924-951.  
2-Naphthol, 4-(p-hydroxyphenylthio)-;  $\text{HOC}_6\text{H}_4\text{SC}_6\text{H}_4\text{OH}$ . (Sulphide, 4-hydroxyphenyl-3-hydroxy-1-naphthyl). 383P, 1178.
- 582-781-951-1003-1021.  
m-Cresol, 4,4'-thiobis[6-isopropyl-;  $(\text{C}_6\text{H}_7\text{C}_6\text{H}_3(\text{CH}_3)(\text{OH}))_2\text{S}$ . (Sulphide, bis(4-hydroxy-5-isopropyl-2-methylphenyl)-). 383P, 1178.
- 582-781-952.  
Phenol, p,p'-thiodi-;  $\text{S}(\text{C}_6\text{H}_4\text{OH})_2$ . (Sulphide, bis-(4-hydroxyphenyl)-). 383P, 1178.
- 582-781-952.  
Phenol, o-(p-hydroxyphenylthio)-;  $\text{S}(\text{C}_6\text{H}_4\text{OH})_2$ . (Sulphide, 2,4-dihydroxydiphenyl-). 383P, 1178.

- 582-781-952-975-1022.  
Sulphides, bis(benzylhydroxyaryl)-. 383P, 1178.
- 582-781-952-1022.  
p-Cresol, 2,2'-thiodi-;  $[\text{CH}_3\text{C}_6\text{H}_4(\text{OH})]_2\text{S}$ .  
(Sulphide, bis(4-hydroxy-3-methylphenyl)-).  
383P, 1178.
- 582-781-954-1022.  
o-Cresol, 4,4'-thiobis[ $\alpha$ -phenyl-;  
 $\text{S}[\text{C}_6\text{H}_4(\text{CH}_3\text{C}_6\text{H}_4\text{OH})]_2$ ]. (Phenyl sulphide, bis-4-hydroxy-3-benzyl).  
T as mothproofing agent. 383P, 1175.
- 582-781-975.  
Sulphides, bis(hydroxyaryl)-.  
T clothes moths. 383P, 1178.
- 582-781-975-1113.  
Sulphides, bis(hydroxyaryl)-, arsenic acids of.  
383P, 1178.
- 582-781-1012.  
Ethanol, 2,2'-thiodi-;  $\text{HOCH}_2\text{CH}_2\text{SCH}_2\text{CH}_2\text{OH}$ .  
(Sulphide,  $\beta$ -hydroxyethyl-).  
NT oulline mosquito larvae. 172, 1178.
- 582-782-924.  
2-Naphthol, 1,1'-dithiodi-;  $[\text{C}_{10}\text{H}_7(\text{OH})]_2\text{SS}$ .  
(Disulphide, bis(2-hydroxy-1-naphthyl)-).  
383P, 1178.
- 582-783-942-952.  
Phenol, o,o'-trithiobis[4-bromo-;  $[\text{BrC}_6\text{H}_4(\text{OH})]_3\text{S}$ ].  
SSS. (Trisulphide, bis(5-bromo-2-hydroxyphenyl)-).  
383P, 1178.
- 582-783-924.  
2-Naphthol, 1,1'-tetrathiodi-;  $\text{HOCH}_2\text{CH}_2\text{SSSSCH}_2\text{CH}_2\text{OH}$ .  
OH. 8,8'-Dithio[1,1'-dithiobis(2-naphthol)-].  
NT mosquito larvae. 487.
- 582-783-952.  
Phenol, o,o'-trithiodi-;  $(\text{C}_6\text{H}_5\text{OH})_3\text{SSS}$ . (Trisulphide, bis(2-hydroxyphenyl)-). 383P, 1178.
- 582-783-1027.  
Polysulphides, bis-hydroxyaryl-. 383P, 1178.
- 582-842-852-952.  
o,o'-Biphenol dibromodichloro-, CU;  
 $\text{HO}(\text{Cl})(\text{Br})\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Br})(\text{Cl})\text{OH}$ . (Dibromodichloro-2,2'-dioxydiphenyl).  
T as mothproofing agent. 412P, 1175, 1461P.
- 582-842-852-952-1021.  
Phenol, o,o' methylenebis[3-bromo-5-chloro-;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})(\text{Br})\text{OH}]_2$ ]. (Methane, 2,2'-dihydroxy-5,5'-dichloro-3,3'-dibromo-).  
T as mothproofing agent. 1175, 1464P.
- 582-842-852-952-1021.  
Phenol, methylenebis[bromochloro-, CU;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})(\text{Br})\text{OH}]_2$ ]. (Methane, dihydroxy-dichloro-dibromo-diphenyl).  
T as mothproofing agent. 418P, 1175.
- 582-842-952-1004-1033.  
p,p'-Biphenol, 3,3'-bis(2-bromoallyl)-;  
 $[\text{-C}_6\text{H}_4(\text{OH})\text{CH}_2\text{C}(\text{Br})\text{CH}_2\text{C}_6\text{H}_4\text{OH}]_2$ . (Biphenyl, 3,3'-di-(2-bromoallyl)-4,4'-dihydroxy-).  
Fly spray. 112, 125P.
- 582-842-952-1021.  
Phenol, o,o'-methylenebis[3-bromo-;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Br})\text{OH}]_2$ ]. (Methane, 2,2'-dihydroxy-5,5'-dibromodiphenyl; 2,2'-dioxo-5,5'-dibromodiphenylmethane).  
T as mothproofing agent. 434P, 1175, 1465P.
- 582-844-952.  
o,o'-Biphenol, 3,3',5,5'-tetrabromo-;  
 $\text{HO}(\text{Br})\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Br})\text{OH}$ . (3,5,5',5'-Tetrabromo-2,2'-dioxydiphenyl).  
T as mothproofing agent. 412, 1175, 1461P.
- 582-847-952-1023.  
Cresol, methylenebis[bromo-, CU;  
 $\text{CH}_3[\text{CH}_3\text{C}_6\text{H}_3(\text{Br})\text{OH}]_2$ ]. (Methane, bis(hydroxy-tolyl)-, brominated).  
T as mothproofing agent. 455P, 1179.
- 582-851-951.  
Hydroquinone, chloro-, CU;  $\text{ClC}_6\text{H}_4(\text{OH})_2$ .  
T screwworms at 0.33-0.67%. 158.
- 582-851-951.  
Resorcinol, 4-chloro-;  $\text{ClC}_6\text{H}_4(\text{OH})_2$ . (1,3-Dihydroxy-4-chlorobenzene).  
ST screwworms at 0.67%. 156.
- 582-851-951-993.  
Resorcinol, chloro-(2-ethylhexyl)-, CU. 818P.
- 582-851-951-1021.  
Saligenin, 5-chloro-;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_4\text{CH}_2\text{OH}$ . (Benzyl alcohol, 5-chloro-2-hydroxy).  
T as mothproofing agent. 410P, 1175.
- 582-852-924-1021.  
1-Naphthol, 2,2'-methylenebis[4-chloro-;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2$ ]. (Methane, 1,1'-dihydroxy-4,4'-dichloro-2,2'-dinaphthyl; 1,1'-dioxo-4,4'-dichloro-2,2'-dinaphthylmethane).  
T as mothproofing agent. 438P, 1175, 1179, 1457P.
- 582-852-951-1021.  
Saligenin, 3,5-dichloro-;  $\text{HO}(\text{Cl})_2\text{C}_6\text{H}_3\text{CH}_2\text{OH}$ .  
Benzal alcohol, 3,5-dichloro-2-hydroxy; 3,5-dichloro-2-oxybenzylalcohol).  
T as mothproofing agent. 410P, 415P, 1175, 1463P.
- 582-852-952.  
o,o'-Biphenol, dichloro-, CU;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{Cl})\text{OH}$ . (Dichloro-2,2'-dioxydiphenyl).  
T as mothproofing agent. 412P, 1175, 1461P.
- 582-852-952-1004-1033.  
p,p'-Biphenol, 3,3'-bis(2-chloroallyl)-;  
 $[\text{-C}_6\text{H}_4(\text{OH})\text{CH}_2\text{C}(\text{Cl})\text{CH}_2\text{C}_6\text{H}_4\text{OH}]_2$ . (Biphenyl, 3,3'-di-(2-chloroallyl)-4,4'-dihydroxy-).  
Fly spray. 112, 125P.
- 582-852-952-1011.  
Phenol, ethylenedibis[2-chloro-, CU;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2$ ]. (Methane bis(o-chlorohydroxyphenyl)-).  
T as mothproofing agent. 1179, 1459P.
- 582-852-952-1021.  
Phenol, o,o'-methylenebis[5-chloro-;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2$ ]. (Methane, bis(5-chloro-2-hydroxyphenyl)-; 2,2'-dioxo-5,5'-dichlorodiphenylmethane).  
T as mothproofing agent. 175, 398P, 402P, 443P, 450P, 451P, 458P, 1179, 1468P, 1468P.
- 582-852-952-1021.  
Phenol, o,o'-methylenebis[6-chloro-;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2$ ]. (Methane, bis(6-chloro-2-hydroxyphenyl)-).  
T as mothproofing agent. 438P, 448P, 1179.
- 582-852-952-1022.  
2,4-Xylenol, *as*-(3,5-dichloro-2-hydroxyphenyl)-;  
 $\text{CH}_3(\text{Cl})_2\text{C}_6\text{H}_3\text{OH}$ . (Methane, 3,5-dichloro-2,2'-dihydroxy-5'-methylidiphenyl-).  
T as mothproofing agent. 1179, 1468P.
- 582-852-952-1023.  
o-Cresol, 6,6'-methylenebis[4-chloro-;  
 $\text{CH}_3(\text{ClC}_6\text{H}_3(\text{CH}_3)\text{OH})_2$ ]. (Methane, bis(5-chloro-2-hydroxy-3-methylphenyl)-).  
T as mothproofing agent. 458P, 1165P, 1175, 1179.
- 582-852-953-1021.  
Phenol, o,o'-benzylidenebis[5-chloro-;  
 $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_5$ ]. (Methane, bis(5-chloro-2-hydroxyphenyl)-phenyl-).  
T as mothproofing agent. 458P, 1179.
- 582-852-953-1022-1356.  
Phosphoric acid, di-m-chlorocresyl phenyl ester;  
 $[\text{C}_6\text{H}_3]_2[(\text{CH}_3)(\text{OH})(\text{Cl})\text{C}_6\text{H}_3]_2\text{PO}_4$ . Monophenyl-di-m-chlorocresyl ester of phosphoric acid).  
T clothes moths. 877P.
- 582-853-952-1021.  
Phenol, methylenebis[trichloro-, CU. (Methane, trichlorodihydroxy-diphenyl).  
T as mothproofing agent. 1175, 1463P.
- 582-853-952-1021.  
Phenol, 6-chloro-o,o'-methylenebis[4-chloro-;  
 $\text{CH}_3[\text{C}_6\text{H}_3(\text{Cl})\text{OH}]_2\text{C}_6\text{H}_3(\text{Cl})\text{OH}$ . (Methane, 2,2'-dihydroxy-3,5,5'-trichlorodiphenyl-).  
T as mothproofing agent. 410P, 450P, 1175, 1179.
- 582-853-953-1021.  
Phenol, 2,2'-p-chlorobenzylidenebis[4-chloro-;  
 $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_4\text{Cl}$ . (Methane, bis(5-chloro-2-hydroxyphenyl)-2'-chlorophenyl-).  
T as mothproofing agent. 417P, 451P, 1175, 1179.
- 582-853-953-1021.  
Phenol, 2,2'-p-chlorobenzylidenebis[4-chloro-;  
 $\text{CH}(\text{ClC}_6\text{H}_4\text{OH})_2\text{C}_6\text{H}_4\text{Cl}$ . (Methane, bis(5-chloro-2-hydroxyphenyl)-4'-chlorophenyl-).  
T as mothproofing agent. 451P, 458P, 1179.
- 582-853-1011.  
Chloral hydrate;  $\text{Cl}_3\text{CCH}(\text{OH})_2$ . (2,2,2-Trichloro-1,1-ethanediol; trichloroethylidene glycol).  
T *Aphis rumicis*; NT *Tenebrio molitor*. 175, 841, 1152.

- 582-854-952.  
 $o,o'$ -Biphenol, 3,3',5,5'-tetrachloro-;  
 $\text{HO}(\text{Cl})_2\text{C}_6\text{H}_2\text{C}_6\text{H}_2(\text{Cl})_2\text{OH}$ .  
 T clothes moths. 412P, 1175, 1461P.
- 582-854-952-1021.  
 Phenol,  $o,o'$ -methylenebis[3,5-dichloro-;  
 $\text{CH}_2(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})_2$ ]. (Methane, bis(3,5-dichloro-2-hydroxyphenyl)-).  
 T as mothproofing agent. 435P, 436P, 443P, 455P, 458P, 1175, 1179, 1465P.
- 582-854-952-1021.  
 Phenol,  $p,p'$ -methylenebis[3,5-dichloro-;  $\text{CH}_2(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})_2$ ]. Methane, bis(3,5-dichloro-4-hydroxyphenyl)-).  
 T as mothproofing agent. 438P, 1175, 1179, 1457P.
- 582-854-952-1021.  
 Phenol, benzylidenebis[dichloro-, CU. (Methane, dihydroxy tetrachloro-triphenyl).  
 T as mothproofing agent. 417P, 1175.
- 582-854-953-1021.  
 Phenol, 2,2'-(2,6-dichlorobenzylidene)bis[5-chloro-;  
 $\text{CH}(\text{Cl})_2\text{C}_6\text{H}_4(\text{OH})_2\text{C}_6\text{H}_3\text{Cl}_2$ ]. (Methane, bis(5-chloro-2-hydroxyphenyl)-2',6'-dichlorophenyl)-).  
 T as mothproofing agent. 443P, 451P, 1179.
- 582-855-953-1021.  
 Phenol, 2,2'-( $o$ -chlorobenzylidene)bis[3,5-dichloro-;  
 $\text{CH}(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})_2\text{C}_6\text{H}_3\text{Cl}_2$ ]. (Methane, bis(3,5-dichloro-2-hydroxyphenyl)-2'-chlorophenyl)-).  
 T as mothproofing agent. 443P, 452P, 1175, 1179, 1465P.
- 582-855-952-1021.  
 Phenol,  $m,m'$ -methylenebis[2,4,6-trichloro-;  
 $\text{CH}_2(\text{Cl})_2\text{C}_6\text{H}_2(\text{OH})_2$ ]. (Methane, bis(2,4,6-trichloro-3-hydroxyphenyl)-; 3,3'-dihydroxy-2,2',4,4',6,6'-hexachlorodiphenylmethane).  
 T as mothproofing agent. 439P, 1179, 1453P, 1454P.
- 582-856-953-1021.  
 Phenol, 2,2'-(2,4-dichlorobenzylidene)bis[3,5-dichloro-;  
 $\text{CH}(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})_2\text{C}_6\text{H}_3\text{Cl}_2$ ]. (Methane, bis(3,5-dichloro-2-hydroxyphenyl)-2',6'-dichlorophenyl)-).  
 T as mothproofing agent. 444P, 1179.
- 582-856-953-1021.  
 Phenol, 2,2'-(2,6-dichlorobenzylidene)bis[3,5-dichloro-;  
 $\text{CH}(\text{Cl})_2\text{C}_6\text{H}_3(\text{OH})_2\text{C}_6\text{H}_3\text{Cl}_2$ ]. (Methane, bis(3,5-dichloro-2-hydroxyphenyl)-2',6'-dichlorophenyl)-).  
 T as mothproofing agent. 443P, 444P, 451P, 452P, 1179.
- 582-857-952-1021.  
 Phenol,  $o,o'$ -chloromethylenebis[3,5-dichloro-, CU. (Methane, bis(3,5-dichloro-2-hydroxyphenyl)-, chlorinated).  
 T as mothproofing agent. 455P, 1179.
- 582-862-952-1021.  
 Phenol,  $o,o'$ -methylenebis[5-fluoro-;  
 $\text{CH}_2(\text{C}_6\text{H}_4(\text{F})\text{OH})_2$ ]. (Methane, bis(5-fluoro-2-hydroxyphenyl)-).  
 T as mothproofing agent. 449P, 1179.
- 582-924.  
 1,4-Naphthalenediol;  $\text{C}_{10}\text{H}_8(\text{OH})_2$ . (1,4-Naphthendiol; d-hydronaphthoquinone; 1,4-hydronaphthoquinone).  
 NT clothes moths. 739, 1176.
- 582-924.  
 2,7-Naphthalenediol;  $\text{C}_{10}\text{H}_8(\text{OH})_2$ . (2,7-Dihydroxynaphthalene).  
 MT as mothproofing agent. 239.
- 582-924.  
 1,1'-Bi-2-naphthol;  $[\text{C}_{10}\text{H}_7(\text{OH})]_2$ .  
 HT *Carpocapsa pomonella* larvae; MT mosquito larvae. 487, 1291.
- 582-924.  
 Bi-2-naphthol-, CU?  $\text{HOOC}_2\text{H}_4\text{C}_{10}\text{H}_7\text{OH}$ . ( $\beta,\beta'$ -Dinaphthol).  
 NT *Cochliomyia americana* C. and P. 944.
- 582-951.  
 Pyrocatechol;  $\text{C}_6\text{H}_4(\text{OH})_2$ . (Pyrocatechin; 1,2-dihydroxybenzene; catechol; ortho-dioxybenzene; oxyphenic acid; 1,2-phenediol; pyrocatechic acid).  
 T screwworms and as mothproofing agent; MT *Aphis rumicis*; ST Colorado potato beetle and Mexican bean beetle; NT *Tineola biselliella* and *Attagenus piceus* (739). 156, 175, 239, 559, 606, 739, 1176, 1377.
- 582-951.  
 Resorcinol;  $\text{C}_6\text{H}_4(\text{OH})_2$ . (1,3-Benzenediol; resorcin).  
 T screwworms, *Aphis rumicis*, and as mothproofing agent. 156, 404P, 870P, 1152, 1175, 1179, 1385P, 1407.
- 582-951.  
 Hydroquinone;  $\text{C}_6\text{H}_4(\text{OH})_2$ . (1,4-Dihydroxybenzene; hydroquinol; para-dioxybenzene;  $p$ -dioxybenzol).  
 T screwworms and Japanese beetle; NT *Tineola biselliella*, *Attagenus piceus*, and NT corn borer at 4 lbs./100 gal. 156, 494, 739, 1122, 1176.
- 582-951-1000.  
 Hydroquinone, diamyl-, CU;  $[\text{CH}_2\text{CH}_2\text{C}(\text{OH})_2]_2\text{C}_6\text{H}_4(\text{OH})_2$ .  
 MT codling moth larvae; NT *Bombus mori* larvae. 559, 1291.
- 582-951-1022.  
 Hydroquinone, dimethyl-, CU;  $(\text{CH}_3)_2\text{C}_6\text{H}_3(\text{OH})_2$ .  
 NT *Bombus mori* larvae. 561.
- 582-952.  
 $o,o'$ -Biphenol;  $\text{HOC}_6\text{H}_4\text{C}_6\text{H}_4\text{OH}$ . ( $o,o'$ -Dioxydiphenyl).  
 T as mothproofing agent. 412P, 1175, 1461P.
- 582-952-961.  
 Phenol,  $p,p'$ -cyclohexylidenedi-?  $\text{C}_6\text{H}_{10}(\text{C}_6\text{H}_4\text{OH})_2$ . (Cyclohexane, 4,4'-dihydroxydiphenyl; 4,4'-dioxycyclohexyldiphenyl).  
 T as mothproofing agent. 94P, 405P, 1175, 1362P.
- 582-952-961-1021.  
 Phenol,  $p,p'$ -(4-methylcyclohexylidene)di-;  
 $\text{CH}_2\text{C}_6\text{H}_4(\text{C}_6\text{H}_4\text{OH})_2$ . (Cyclohexane, 4,4'-dihydroxy-1,1'-diphenyl-4"-methyl).  
 T as mothproofing agent. 401P, 405P, 1175.
- 582-952-961-1022.  
 $o$ -Cresol, 4,4'-cyclohexylidenedi-;  
 $\text{C}_6\text{H}_9(\text{C}_6\text{H}_4(\text{CH}_3)\text{OH})_2$ . (Cyclohexane, 4,4'-dihydroxy-3,3'-dimethyl-diphenyl-1,1'-).  
 T as mothproofing agent. 401P, 405P, 1175.
- 582-952-996-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(2-isobutylallyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}_2\text{CH}(\text{C}_6\text{H}_5)\text{CH}_2\text{CH}_2(\text{CH}_3)_2]_2$ . (Biphenol, 3,3'-di-(2-isobutylallyl)-4,4'-dihydroxy-).  
 Fly spray. 112, 125P.
- 582-952-998-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(1-propylallyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}(\text{C}_6\text{H}_5)\text{CH}(\text{CH}_3)]_2$ . (Biphenyl, 3,3'-di-(1-propylallyl)-4,4'-dihydroxy-).  
 Fly spray. 112, 125P.
- 582-952-998-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(3-propylallyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}_2\text{CH}(\text{CH}_2\text{CH}_2\text{CH}_3)]_2$ . (Biphenyl, 3,3'-di-(3-propylallyl)-4,4'-dihydroxy-).  
 Fly spray. 112, 125P.
- 582-952-1000-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(1-methyl-2-butenyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}(\text{C}_6\text{H}_5)\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)]_2$ . (4,4'-Dihydroxy-3,3'-bis(1-methyl-2-butenyl)-).  
 Fly spray. 95P, 112.
- 582-952-1000-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(1-ethylallyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}(\text{C}_6\text{H}_5)\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3]_2$ . (Biphenyl, 3,3'-di-(1-ethylallyl)-4,4'-dihydroxy-).  
 Fly spray. 112, 125P.
- 582-952-1000-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(2-pentenyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3]_2$ . (Biphenyl, 4,4'-dihydroxy-3,3'-di-(2-pentenyl)-).  
 Fly spray. 112, 125P.
- 582-952-1002-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(1-methylallyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}(\text{C}_6\text{H}_5)\text{CH}(\text{CH}_3)]_2$ . (Biphenyl, 3,3'-di-(1-methylallyl)-4,4'-dihydroxy-).  
 Fly spray. 112, 125P.
- 582-952-1002-1033.  
 $p,p'$ -Biphenol, 3,3'-bis(2-methylallyl)-;  
 $[-\text{C}_6\text{H}_4(\text{OH})\text{CH}(\text{C}_6\text{H}_5)\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3]_2$ . (Biphenyl, 3,3'-di-(2-methylallyl)-4,4'-dihydroxy-).  
 Fly spray. 112, 125P.
- 582-952-1003.  
 Catechol, 4-( $\alpha$ -phenylisopropyl)-;  
 $(\text{OH})_2\text{C}_6\text{H}_4\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . 1089P.
- 582-952-1003.  
 Hydroquinone, 2-( $\alpha$ -phenylisopropyl)-;  
 $(\text{OH})_2\text{C}_6\text{H}_4\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . 1089P.



- 582-982-1003.  
Resorcinol, 4-(*p*-phenylisopropyl)-;  
(OH)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>C(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub>. 1086P.
- 582-982-1003.  
Phenol, *p,p'*-isopropylidemedi-; (CH<sub>3</sub>)<sub>2</sub>C(C<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>.  
(Di-(4-hydroxyphenyl) dimethylmethane). 300P.
- 582-982-1004-1027-1033.  
*p,p'*-Biphenol, 3,3'-dialkyl-, CU;  
[-C<sub>6</sub>H<sub>4</sub>(OH)CH(R)C(R')CH<sub>2</sub>R'']<sub>2</sub>. (Biphenyl, 3,3'-  
dialkyl-4,4'-dihydroxy-; 3,3'-dialkyl-4,4'-  
dihydroxydiphenyl).  
Fly spray. 112, 125P.
- 582-982-1004-1033.  
*p,p'*-Biphenol, 3,3'-diallyl-; [-C<sub>6</sub>H<sub>4</sub>(OH)CH<sub>2</sub>CH=CH<sub>2</sub>]<sub>2</sub>.  
(Biphenyl, 3,3'-diallyl-4,4'-dihydroxy-).  
Fly spray. 112, 125P.
- 582-982-1023.  
*p*-Cresol, 2,2'-methylenebis-; CH<sub>3</sub>(C<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)OH)<sub>2</sub>.  
(Methane, 3,3'-dimethyl-6,6'-dihydroxydiphenyl;  
3,3'-dimethyl-6,6'-dioxidyphenylmethane).  
T as mothproofing agent. 37P, 1175.
- 582-984-1004-1033.  
*p,p'*-Biphenol, 3,3'-bis(1-phenylallyl)-;  
[-C<sub>6</sub>H<sub>4</sub>(OH)CH(C<sub>6</sub>H<sub>5</sub>)CH=CH<sub>2</sub>]<sub>2</sub>. (Biphenyl, 3,3'-  
di-(1-phenylallyl)-4,4'-dihydroxy-; 3,3'-di-(1-  
phenylallyl)-4,4'-dihydroxy-diphenyl).  
Fly spray. 112, 125P.
- 582-986-1022.  
Resorcinol, dihydromethyl-, CU; (HO)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>-  
(CH<sub>3</sub>)<sub>2</sub>.  
NT silkworms. 292, 559.
- 582-987.  
Pinaeol; (CH<sub>3</sub>)<sub>2</sub>C(OH)COH(CH<sub>3</sub>)<sub>2</sub>. (2,3-Dimethyl-  
2,3-butanediol; tetramethylene glycol; pinacone).  
698P.
- 582-1003-1260.  
Triglycerol-orthoarsenite?  
[CH<sub>2</sub>(OH)CH(OH)CH<sub>2</sub>O]<sub>3</sub>As? 1132P.
- 582-1003-1260.  
Diglycerol-orthoarsenite;  
[CH<sub>2</sub>(OH)CH(OH)CH<sub>2</sub>O]<sub>2</sub>AsOH. 1132P.
- 582-1003-1260.  
Monoglycerol-orthoarsenite;  
CH<sub>2</sub>(OH)CH(OH)CH<sub>2</sub>OAsO<sub>2</sub>H<sub>2</sub>. 1132P.
- 582-1003-1261.  
Monoglycerol-metaarsenite;  
CH<sub>2</sub>(OH)CH(OH)CH<sub>2</sub>OAsO. 1132P.
- 583-593-822-953-1023.  
*s*-Trithiane, tris-(4-hydroxy-3-methoxyphenyl)-;  
C<sub>6</sub>H<sub>4</sub>O<sub>3</sub>As<sub>3</sub>. (Trithiovanillin).  
HT oodling moth larvae; NT mosquito larvae.  
487, 1291.
- 583-691-1013.  
Triethanolamine; (HOCH<sub>2</sub>CH<sub>2</sub>)<sub>3</sub>N.  
T *Lucilia cuprina* larvae. 849.
- 583-691-1013-1313.  
Triethanolamine fluosilicate; (HOCH<sub>2</sub>CH<sub>2</sub>)<sub>3</sub>NH<sub>2</sub>SiF<sub>6</sub>?  
(Triethylamine, β,β',β''-trihydroxy-, fluosilicate).  
T as mothproofing agent. 1179, 1225P, 1228P.
- 583-801-953-1291.  
Sulfonium chloride, tris(*p*-hydroxyphenyl)-;  
(HOC<sub>6</sub>H<sub>4</sub>)<sub>3</sub>SCl. 528P.
- 583-851-951-1022.  
2,6-Xylenol, 4-chloro-*a,a'*-dihydroxy-;  
ClC<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>OH)<sub>2</sub>OH. (Phenol, 2,6-dimethylol-4-  
chloro-).  
T as mothproofing agent. 1175, 1464P.
- 583-852-953-1023.  
Mesityl, *a,a'*-bis(5-chloro-2-hydroxyphenyl)-;  
CH<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(Cl)OH)<sub>2</sub>OH. (Phenol, 2,6-bis-  
(5-chloro-2-hydroxyphenyl)-4-methyl-).  
T as mothproofing agent. 454P, 1179.
- 583-852-953-1025.  
Mesityl, *a,a'*-bis(5-chloro-2-hydroxy-*m*-tolyl)-;  
CH<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>)(Cl)OH)<sub>2</sub>OH. (Phenol, 2,6-  
bis(5-chloro-2-hydroxy-3-methylbenzyl)-4-methyl-).  
T as mothproofing agent. 454P, 1179.
- 583-853-953-1022.  
Phenol, 4-chloro-2,6-bis(5-chloro-2-hydroxybenzyl)-;  
ClC<sub>6</sub>H<sub>3</sub>(CH<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(Cl)OH)<sub>2</sub>OH.  
T as mothproofing agent. 453P, 1179.
- 583-854-953-1021.  
*m*-Cresol, *a,a'*-bis(5-chloro-2-hydroxyphenyl)-2,4-  
dichloro-; CH(ClC<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(Cl)<sub>2</sub>OH.
- (Methane, bis(5-chloro-2-hydroxyphenyl)-2',6'-di-  
chloro-3'-hydroxyphenyl-).  
T as mothproofing agent. 458P, 1179.
- 583-855-953-1021.  
*m*-Cresol, *a,a'*-bis(5-chloro-2-hydroxyphenyl)-2,4,6-  
trichloro-; CH(ClC<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(Cl)<sub>3</sub>OH.  
(Methane, bis(5-chloro-2-hydroxyphenyl)-2',4',6'-  
trichloro-3'-hydroxyphenyl-).  
T as mothproofing agent. 458P, 1179.
- 583-855-953-1022.  
Phenol, 4-chloro-2,6-bis(3,5-dichloro-4-hydroxy-  
benzyl)-; ClC<sub>6</sub>H<sub>3</sub>(CH<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(Cl)<sub>2</sub>OH)<sub>2</sub>OH.  
T as mothproofing agent. 453P, 1179.
- 583-857-953-1021.  
*m*-Cresol, *a,a'*-bis(3,5-dichloro-2-hydroxyphenyl)-  
2,4,6-trichloro-; CH(ClC<sub>6</sub>H<sub>3</sub>(Cl)<sub>2</sub>OH)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(Cl)<sub>3</sub>OH.  
(Methane, 2,2'-dihydroxy-3,5,3',5'-tetrachloro-3''-  
hydroxy-2'',4'',6''-trichlorotriphenyl; 2,2'-dioxo-3,5,3',  
5'-tetrachloro-3''-oxy-2'',4'',6''-trichlorotriphenylmethane).  
T as mothproofing agent. 434P, 1175, 1465P.
- 583-910.  
9-Anthrol, 1,8-dihydroxy-; C<sub>14</sub>H<sub>8</sub>(OH)<sub>2</sub>.  
(1,8-Dihydroxyanthranol). 584P.
- 583-951.  
Pyrogallol; C<sub>6</sub>H<sub>3</sub>(OH)<sub>3</sub>. (1,2,3-Trihydroxybenzene;  
1,2,3-benzenetriol).  
T screwworms at 0.33-0.67%; MT *Aphis rumicis*;  
NT *Hippodamia convergens*. 156, 1110, 1152, 1377.
- 583-951.  
Phloroglucinol; C<sub>6</sub>H<sub>3</sub>(OH)<sub>3</sub>. (1,3,5-Trihydroxyben-  
zene; 1,3,5-benzenetriol).  
T *Aphis rumicis* and T screwworms at 0.33-0.67%.  
156, 1152.
- 583-1003.  
Glycerol; HOCH<sub>2</sub>CH(OH)CH<sub>2</sub>OH. (Glycerine).  
T bedbugs and as mothproofing agent. 1179, 1288,  
1282P.
- 584-591-620-625-998.  
Sucrose; C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.  
(Cane sugar; saccharose).  
NT *Lucilia cuprina*, *L. sericata*, and *Calliphora*  
*stygia*. 918.
- 584-665-952.  
Pyrogallol, (*p*-hydroxyphenylazo)-, CU;  
C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>.  
HT mosquito larvae. 487.
- 584-781-975.  
Sulphides, bis(polyhydroxyaryl)-. 383P, 1178.
- 584-854-952-1021.  
Resorcinol, 2,2'-methylenebis 3,5-dichloro-; CH<sub>2</sub>[C<sub>6</sub>-  
H(Cl)<sub>2</sub>(OH)]<sub>2</sub>. (Methane, 2,6,2',6'-tetrahydroxy-  
3,5,3',5'-tetrachloro-diphenyl; 2,6,2',6'-tetraoxy-3,5-  
3',5'-tetrachlorodiphenylmethane).  
T as mothproofing agent. 434P, 1175, 1465P.
- 584-881-952-1021-1027.  
Phenol, alkylaryl-, CU; C<sub>6</sub>H<sub>5</sub>C(R)(CH<sub>3</sub>)<sub>2</sub>X.  
An alkyl polyhydric phenol corresponding to the  
general formula above, wherein X is a phenolic  
radical selected from the class consisting of poly-  
hydroxy aryl and polyhydroxy haloaryl radicals of  
the benzene series, and R is a lower alkyl radical.  
1089P.
- 588-733-1109.  
Cyanuric acid, ammonium salt; (CNOH)<sub>3</sub>(NH<sub>4</sub>)<sub>3</sub>.  
T *Aphis rumicis*. 1152.
- 588-851-952-1218.  
Phenol, 2-chloro-6-phenyl-, sodium derivative;  
ClC<sub>6</sub>H<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>)ONa. (Sodium-2-chloro-6-phenyl-  
phenoxide).  
HT mosquito larvae. 487.
- 588-852-951-1142-1389.  
Phenol, 2,4-dichloro-, copper sulfate derivative;  
Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH.CuSO<sub>4</sub>. 362P.
- 588-852-951-1244-1291.  
Phenol, 2,4-dichloro-, zinc chloride derivative;  
Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH.ZnCl<sub>2</sub>. 362P.
- 588-853-951-1021-1142-1389.  
*p*-Cresol, 2,3,6-trichloro-, copper sulfate derivative;  
Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>)OH.CuSO<sub>4</sub>. (Copper sulfate of 2,3,5-  
trichloro-4-hydroxy-1-methylbenzene). 362P.
- 588-853-951-1021-1244-1291.  
*p*-Cresol, 2,3,6-trichloro-, zinc chloride derivative;  
Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>(CH<sub>3</sub>)OH.ZnCl<sub>2</sub>. (Zinc chloride of 2,3,5-trich-  
loro-4-hydroxy-1-methylbenzene). 362P.



588-853-951-1244.

Phenol, 2,4,6-trichloro-, zinc salt;  $(\text{Cl}_3\text{C}_6\text{H}_2\text{O})_2\text{Zn}$ . 966P.

588-854-951-1218.

Phenol, 2,3,4,5-tetrachloro-, sodium derivative;  $\text{Cl}_4\text{C}_6\text{HONa}$ . (Sodium 2,3,4,5-tetrachlorophenoxide). MT mosquito larvae. 487.

588-861-951-1143.

Phenols, substituted, copper derivatives. (Copper salts of halogen substituted phenols and cresols).

T as mothproofing agent. 40P, 758P, 1176.

588-951-1021-1126.

Cresol, calcium derivative, CU. (Calcium cresolate). T flea beetle on root plants. 10P.

588-951-1021-1176-1303.

Cresol, cyanomercury derivative, CU;  $\text{Hg}(\text{CN})(\text{OC}_6\text{H}_4\text{CH}_3)_2$ . (Mercury cresolcyanide). 379P.

588-951-1021-1356.

Phosphoric acid, m-cresyl ester;  $\text{PO}(\text{OC}_6\text{H}_4\text{CH}_3)_2(\text{OH})$ .

T clothes moths. 877P.

588-951-1021-1356.

Phosphoric acid, p-cresyl ester:  $\text{PO}(\text{OC}_6\text{H}_4\text{CH}_3)_2(\text{OH})$ .

T clothes moths. 877P.

588-951-1413.

Thiophosphoric acid, cresyl ester, CU. (Cresol, thiophosphoric acid ester).

Used to increase the floatability on water of Paris green for killing Anopheline larvae. 1027P, 1178.

588-952-1218.

Phenol, o-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ . (o-Hydroxydiphenyl sodium salt).

T screwworms at 0.33-0.67%; NT codling moth. 156, 930.

588-953-1021-1356.

Phosphoric acid, diphenyl o-cresyl ester;  $\text{PO}(\text{C}_6\text{H}_5\text{O})_2\text{C}_6\text{H}_4\text{OCH}_3$ .

T clothes moths. 877P.

588-989-1045.

Dodecyl alcohol, metallic derivatives, CU;  $\text{C}_{12}\text{H}_{25}\text{OM}$ .

T lower forms of life. 107P.

591-620-950.

Ether, bis(9-xanthyl)-;  $(\text{C}_6\text{H}_4\text{OC}_6\text{H}_4\text{CH})_2\text{O}$ . NT mosquito larvae. 487, 1291.

591-632-851-951-1021.

Ether, p-chlorophenyl-2,3-epoxypropyl-;  $(\text{C}_6\text{H}_4\text{O})\text{CH}_2\text{OC}_6\text{H}_4\text{Cl}$ . (Oxirane, 2-(p-chlorophenoxy-methyl)-; 1-(4-chloro-phenoxy)-propylene oxide-2,3).

Fly spray. 14P, 112.

591-632-855-951-1021.

Ether, 2,3-epoxy-2-methylpropyl pentachlorophenyl-;  $\text{CH}_3(\text{C}_6\text{H}_2\text{O})\text{CH}_2\text{OC}_6\text{H}_2\text{Cl}_5$ . (Oxirane, 2-methyl-2-(pentachlorophenoxy-methyl)-; 1-(pentachlorophenoxy)-2-methyl-propylene oxide-2,3).

Fly spray. 14P, 112.

591-632-855-951-1021.

Ether, 2,3-epoxypropyl pentachlorophenyl-;  $(\text{C}_6\text{H}_2\text{O})\text{CH}_2\text{OC}_6\text{H}_2\text{Cl}_5$ . (Oxirane, 2-(pentachlorophenoxy-methyl)-; 1-(pentachloro-phenoxy)-propylene oxide-2,3).

MT as fly spray. 14P, 112.

591-632-887-951-1021-1027.

Ether, 2,3-epoxy-2-methylpropyl halophenyl-, CU;  $\text{CH}_3(\text{C}_6\text{H}_3\text{O})\text{CH}_2\text{OC}_6\text{H}_3\text{Xn}$ . (Oxirane, halogenated phenoxy-methyl; halogenated phenoxy propylene oxide). Fly spray. 14P, 112.

591-632-951-961-1021.

Ether, 2,3-epoxypropyl o-phenylcyclohexyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OC}_6\text{H}_4\text{C}_6\text{H}_{11}$ . (1-(2-Phenyl-cyclohexanoxy)-propylene-oxide-2,3). 1300P.

591-632-951-961-1021.

Ether, b-cyclohexylphenyl 2,3-epoxypropyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OC}_6\text{H}_4\text{C}_6\text{H}_{11}$ . 1-(2-Cyclohexyl-phenoxy)-propylene-oxide-2,3). 1300P.

591-632-951-993-1021.

Ether, 2,3-epoxypropyl p-tert-octylphenyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OC}_6\text{H}_4\text{C}_8\text{H}_{17}$ . (Oxirane, 2-(p-tert-octylphenoxy-methyl)-; 1-(4-tertiary-octyl-phenoxy)-propylene oxide-2,3).

Fly spray. 112, 1301P.

591-632-951-1001-1021.

Ether, p-tert-butylphenyl 2,3-epoxypropyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OC}_6\text{H}_4\text{C}(\text{CH}_3)_3$ . (Oxirane, 2-(p-tert-butylphenoxy-methyl)-; 1-(4-tertiary butylphenoxy)-propylene oxide-2,3).

HT houseflies at 3%. 112, 1301P.

591-632-951-1021-1027.

Ether, alkylphenyl 2,3-epoxymethylpropyl-;  $\text{R}'(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OC}_6\text{H}_4\text{R}$ . (Oxirane, alkylphenoxy-methyl; alkylphenoxy propylene oxide). Wherein R represents an unsubstituted alkyl radical containing 4 to 8 carbon atoms, and R' is hydrogen or a methyl radical.

Fly spray. 112, 1301P.

591-632-961-1021.

Ether, cyclohexyl 2,3-epoxypropyl-;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{OC}_6\text{H}_{11}$ . (1-(Cyclohexanoxy)-propylene oxide-2,3). 1300P.

591-655-952-1011.

Hydrazobenzene, p-ethoxy-;  $\text{C}_6\text{H}_5\text{NHNHC}_6\text{H}_4\text{OC}_2\text{H}_5$ . T young screwworm larvae at 10%. 944.

591-665-671-952-1021.

o-Anisidine, 4-phenylazo-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_4(\text{NH}_2)\text{OCH}_3$ . (2-Amino-5-azobenzene). NT *Bombyx mori* larvae. 559.

591-665-852-924-951-1021.

Ether, [4-(2,5-dichlorophenylazo) - 1-naphthyl]methyl-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{N}:\text{NC}_{10}\text{H}_7\text{OCH}_3$ . NT mosquito larvae. 487.

591-665-952-1011.

Azobenzene, p-ethoxy-;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_4\text{OC}_2\text{H}_5$ . T young screwworm larvae at .08%. 944.

591-671-851-951-1003-1030.

Aniline, p-(2-chloroalkyloxy);  $\text{H}_2\text{NC}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})_2\text{CH}_3$ . (Propene, 3-(p-aminophenoxy)-2-chloro-; 2-chloroalkyl ether of 4-aminophenol). Fly spray. 112, 209P.

591-671-951-1011.

m-Phenetidine;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH}_2$ .T screwworms at 0.33-0.67%; MT *Culex quinquefasciatus* larvae. 156, 157.

591-671-951-1011.

o-Phenetidine;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH}_2$ . (o-Ethoxyaniline; o-aminophenetole).

T screwworms at 0.17-0.33%. 156.

591-671-951-1011.

p-Phenetidine;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH}_2$ . (p-Ethoxyaniline). T codling moth, as mothproofing agent, and T screwworms at 0.10-0.17%; MT *Culex quinquefasciatus* larvae; NT *Melanoplus m. mexicanus*. 156, 157, 333P, 915, 1150, 1176.

591-671-951-1011-1312.

Phenetidine hydrofluoride, CU;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH}_2\text{HF}$ . NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.

591-671-951-1021.

m-Anisidine;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NH}_2$ . (m-Methoxyaniline). T screwworms at 0.17-0.33%; NT red scale. 156, 268.

591-671-951-1021.

o-Anisidine;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NH}_2$ . (o-Methoxyaniline). T codling moth and T screwworms at 0.17-0.33%; NT red scale and silkworm larvae. 156, 268, 561, 915.

591-671-951-1021.

p-Anisidine;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NH}_2$ . (p-Methoxyaniline). T screwworms at 0.10-0.17%; NT corn borer at 4 lbs./100 gal. 156, 1122.

591-671-952-1021-1027.

Ethers, amino-substituted phenyl benzyl-.

Fly spray. 112, 606P.

591-671-952-1021-1291.

p-Anisidine, o-phenyl-, hydrochloride;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NH}_2\text{HCl}$ . (Aniline, 4-phenylmethoxy-, hydrochloride).

Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.

591-681-952-1001-1021-1030.

p-Anisidine, N-(2-methylallyl)-o-phenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NHC}(\text{CH}_3)=\text{CH}_2$ . (Aniline, 4-phenylmethoxy-N-(2-methylallyl)-). Fly spray. 112, 696P.

- 591-681-952-1003.  
Diphenylamine, *p*-isopropoxy;  $(\text{CH}_3)_2\text{CHOCC}_6\text{H}_5\text{-NHCC}_6\text{H}_5$ .  
HT corn borer. 1120.
- 591-681-953-1022.  
Benzylamine, *N*-(*o*-phenylmethoxyphenyl)-;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{NHCC}_6\text{H}_5$ . (*p*-Benzyl amino phenyl benzyl ether).  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.
- 591-682-800-953-1011.  
Diphenylamine, *p*-ethoxyphenylamino, sulfurized, CU.  
NT Mexican bean beetle. 606, 1432.
- 591-691-742-951-1024.  
Pyrimidone;  $(\text{CH}_3)_2\text{N}(\text{C}_6\text{H}_5)(\text{O})(\text{CH}_2)_2\text{C}_6\text{H}_5$ .  
(4-Dimethylaminoantipyrine; 1,5-dimethyl, 2-phenyl, 4-dimethylamino-3-pyrazolone).  
T *Aphis rumicis*. 1152.
- 591-691-952-993-1024.  
Benzylamine, *N,N*-dimethyl-5-octyl-2-phenylmethoxy-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_2\text{N}(\text{CH}_3)_2(\text{C}_8\text{H}_{17})$ .  
Fly spray. 96P, 112, 688P, 690P, 693P, 694P, 696P.
- 591-691-954-1012-1193-1325.  
Phosphonium hydroxide, *m*-(diethylaminophenoxy) triphenyl-;  $[(\text{C}_6\text{H}_5)_3\text{NC}_6\text{H}_4\text{O}](\text{C}_2\text{H}_5)_2\text{POH}$ .  
T as mothproofing agent. 441P, 1179.
- 591-691-975-1027-1030.  
Amine, aryloxy, substituted, CU;  $\text{R}(\text{OCnH}_{2n})_x\text{NR}_1\text{-Rs}$ . The formula above wherein R represents an aliphatic hydrocarbon group of less than 13 carbon atoms, CnH<sub>2n</sub> represents an alkylene chain of at least 2 carbon atoms in which n has a value of 2-4 inclusive, x represents an integer of at least one, R<sub>1</sub> represents a member of the class consisting of monovalent hydrocarbon groups and divalent aliphatic groups which in conjunction with Rs, etc. 697P.
- 591-730-950-1021.  
Quinoline, 6-methoxy-;  $\text{CH}_3\text{OC}_6\text{H}_4\text{N}$ .  
NT *Bombyx mori* larvae. 561.
- 591-740-951-1022.  
Pyrrolidine, 2-(*p*-methoxyphenyl)-1-methyl-;  
 $\text{C}_6\text{H}_7\text{N}(\text{CH}_3)\text{C}_6\text{H}_4\text{OCH}_3$ . (*a*-(*p*-methoxyphenyl)-*N*-methylpyrrolidine).  
T *Aphis rumicis*. 261.
- 591-781-953-1022.  
Ether, benzyl *p*-benzylthiophenyl-;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{SCH}_2\text{C}_6\text{H}_5$ . (Sulfide, benzyl 4-phenylmethoxyphenyl-).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 591-820-950.  
Ether, bis(9-thioxanthyl)-;  $(\text{C}_{12}\text{H}_8\text{S})_2\text{O}$ .  
NT mosquito larvae. 487.
- 591-841-851-952-1021.  
Ether, *p*-bromobenzyl *o*-chlorophenyl-;  
 $\text{BrC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{Cl}$ .  
Fly spray. 112, 688P.
- 591-841-851-952-1021.  
Ether, *p*-bromobenzyl *p*-chlorophenyl-;  
 $\text{BrC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{Cl}$ .  
Fly spray. 112, 688P.
- 591-841-851-952-1021.  
Ether, *p*-bromophenyl *o*-chlorobenzyl-;  
 $\text{ClC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{Br}$ .  
Fly spray. 112, 688P.
- 591-841-951-1003.  
Ether,  $\gamma$ -bromopropyl phenyl-;  $\text{C}_6\text{H}_5\text{OC}_3\text{H}_6\text{Br}$ .  
HT *Carpocapsa pomonella* larvae; T *Aphis rumicis*. 648, 1291.
- 591-841-951-1011.  
Phenetole, *o*-bromo-;  $\text{BrC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (*o*-Bromophenyl ethyl ether).  
MT *Culex quinquefasciatus*. 157.
- 591-841-951-1011.  
Phenetole, *p*-bromo-;  $\text{BrC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (*p*-Bromophenyl ethyl ether).  
T *Culex quinquefasciatus*; ST screwworms at 0.67%. 156, 157.
- 591-841-951-1021.  
Anisole, *o*-bromo-;  $\text{BrC}_6\text{H}_4\text{OCH}_3$ . (1-Bromo-2-methoxybenzene; *o*-bromophenyl methyl ether).  
MT *Culex quinquefasciatus*. 157.
- 591-841-951-1021.  
Anisole, *p*-bromo-;  $\text{BrC}_6\text{H}_4\text{OCH}_3$ . (1-Bromo-4-methoxybenzene; *p*-bromophenyl methyl ether).  
HT *Culex quinquefasciatus*; T screwworms. 156, 157.
- 591-841-952.  
Ether, *p*-bromodiphenyl-;  $\text{BrC}_6\text{H}_4\text{OC}_6\text{H}_5$ .  
NT red scale. 268.
- 591-841-952-999-1011.  
Ether, 5-*tert*-amyl-2-biphenyl-3-bromo ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Br})(\text{OC}_4\text{H}_9)\text{C}(\text{CH}_3)_2\text{C}_6\text{H}_5$ . (Ethyl ether of 2-bromo-4-*tert*-amyl-6-phenylphenol).  
Fly spray. 112, 212P.
- 591-841-952-1001-1021.  
Ether, benzyl 2-bromo-4-*tert*-butylphenyl-;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4(\text{Br})\text{C}(\text{CH}_3)_3$ .  
Fly spray. 112, 688P.
- 591-841-952-1003-1021.  
Ether, *p*-bromobenzyl 2-bromo-4-*tert*-butylphenyl-;  
 $\text{BrC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4(\text{Br})\text{C}(\text{CH}_3)_3$ .  
Fly spray. 112, 688P.
- 591-841-952-1003-1030.  
Ether, allyl 2-bromo-4-biphenyl-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_5(\text{Br})\text{OCH}_2\text{CH}=\text{CH}_2$ . (Propene, 3-(*o*-bromomethoxy)-; allyl ether of 2-bromo-4-phenylphenol).  
MT houseflies at 3%. 112, 209P.
- 591-841-952-1021.  
Ether, benzyl *p*-bromophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{Br}$ .  
Fly spray. 112, 688P.
- 591-841-952-1021.  
Ether, *p*-bromobenzyl phenyl-;  $\text{BrC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_5$ .  
Fly spray. 112, 688P.
- 591-841-1012.  
Ether, 2-bromoethyl ethyl;  $\text{BrCH}_2\text{CH}_2\text{OCH}_2\text{CH}_3$ .  
(1-Bromo-2-ethoxyethane;  $\beta$ -bromoethyl ether).  
HT rice weevil; NT wireworms and red scale. 268, 846, 1180.
- 591-842-924-953-1193-1325.  
Phosphonium hydroxide, dibromo-2-naphthoxy triphenyl-;  $(\text{Br}_2\text{C}_{10}\text{H}_7\text{O})(\text{C}_6\text{H}_5)_3\text{POH}$ . (Phosphonium hydroxide, (dibromo- $\beta$ -naphthoxy)triphenyl).  
T as mothproofing agent. 441P, 1179.
- 591-842-951-1011.  
Ether, 2-bromoethyl *p*-bromophenyl-;  
 $\text{CH}_3\text{BrCHOC}_6\text{H}_4\text{Br}$ . ( $\beta$ -(4-Bromo-phenoxy)-ethyl bromide). 211P.
- 591-842-952-1021.  
Ether, *p*-bromobenzyl *p*-bromophenyl-;  
 $\text{BrC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{Br}$ .  
Fly spray. 112, 688P.
- 591-842-952-1021.  
Ether, benzyl 2,4-dibromophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{Br})_2$ .  
Fly spray. 112, 688P.
- 591-843-951-1003-1030.  
Ether, allyl 2,4,6-tribromophenyl-;  $\text{Br}_3\text{C}_6\text{H}_3\text{OCH}_2\text{CH}=\text{CH}_2$ . (Propene, 3-(2,4,6-tribromophenoxy)-; allyl ether of 2,4,6-tribromophenol).  
Fly spray. 112, 209P.
- 591-843-951-1021.  
Anisole, 2,4,6-tribromo-;  $\text{CH}_3\text{OC}_6\text{H}_3\text{Br}_3$ .  
NT screwworms. 156.
- 591-851-924-951-1021.  
Ether, *p*-chlorophenyl 1-naphthylmethyl-;  
 $\text{C}_{10}\text{H}_7\text{CH}_2\text{OC}_6\text{H}_4\text{Cl}$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-851-924-1003-1030.  
Ether, 2-chloroallyl 4-methylnaphthyl-, CU;  
 $\text{CH}_3\text{C}_{10}\text{H}_7\text{OCH}_2\text{C}(\text{Cl})=\text{CH}_2$ . (Propene, 2-chloro-3-(4-methylnaphthoxy)-; 2-chloro-allyl ether of 4-methylnaphthol).  
Fly spray. 112, 209P.
- 591-851-924-1004-1030.  
Ether, 2-chloroallyl naphthyl-, CU;  $\text{C}_{10}\text{H}_7\text{OCH}_2\text{C}(\text{Cl})=\text{CH}_2$ . (Propene, 2-chloro-3-naphthoxy-; 2-chloro-allyl ether of naphthol).  
Fly spray. 112, 209P.
- 591-851-951-951-1003-1030.  
Ether, allyl cyclohexylchlorophenyl-, CU;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4(\text{Cl})\text{OCH}_2\text{CH}=\text{CH}_2$ . (Propene, 2-(chloro-2-cyclohexylphenoxy)-; allyl ether of chloro-2-cyclohexylphenol).  
Fly spray. 112, 209P.

- 591-851-951-961-1003-1030.  
Ether, 2-chloroallyl cyclohexylphenyl;  
 $\text{C}_6\text{H}_4\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-(*p*-cyclohexylphenoxy)-; 2-chloro-allyl ether of 4-cyclohexyl phenol).  
MT houseflies at 3%. 112, 209P.
- 591-851-951-1001-1003-1030.  
Ether, allyl 4-*tert*-butyl-2-chlorophenyl;  
 $(\text{CH}_3)_3\text{CC}_6\text{H}_4(\text{Cl})\text{OCH}_2\text{CH:CH}_3$ . (Propene, 3-(4-*tert*-butyl-2-chlorophenoxy)-; allyl ether of 2-chloro-4-*tert*-butyl phenol).  
MT houseflies at 3%. 112, 209P.
- 591-851-951-1001-1003-1030.  
Ether, allyl 4-*tert*-butylphenyl;  
 $(\text{CH}_3)_3\text{CC}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 3-(*p*-*tert*-butylphenoxy)-2-chloro-; 2-chloroallyl ether of 4-*tert*-butyl phenol).  
MT houseflies at 3%. 112, 209P.
- 591-851-951-1002.  
Ether, 3-chloroisobutyl 4-*tert*-butylphenyl;  
 $\text{CHCH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{OC}_6\text{H}_4\text{C}(\text{CH}_3)_3$ . (γ-(4-Tertiary-butyl-phenoxy)-isobutyl chloride). 211P.
- 591-851-951-1003-1022-1030.  
Ether, 2-chloroallyl xylyl;  $(\text{CH}_3)_2\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-(dimethylphenoxy)-; 2-chloroallyl ethers of mixed isomeric dimethyl phenols).  
Fly spray. 112, 209P.
- 591-851-951-1003-1030.  
Ether, 2-chloroallyl phenyl;  $\text{C}_6\text{H}_5\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-phenoxy-; 2-chloro-allyl ether of phenol).  
Fly spray. 112, 209P.
- 591-851-951-1004-1021-1030.  
Ether, 2-chloroallyl thymyl;  
 $\text{CH}_3\text{C}_6\text{H}_4[\text{CH}(\text{CH}_3)_2]\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-thymoxy-; 2-chloro-allyl ether of thymol).  
Fly spray. 112, 209P.
- 591-851-951-1004-1021-1030.  
Ether, carvacryl 2-chloroallyl;  
 $(\text{CH}_3)_2\text{CHC}_6\text{H}_4(\text{CH}_3)\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 3-carvacryo-2-chloro-; 2-chloro-allyl ether of carvacrol).  
Fly spray. 112, 209P.
- 591-851-951-1011.  
Phenetole, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (1-Chloro-4-ethoxybenzene; *p*-chlorophenyl ethyl ether).  
ST screwworms at 0.67%. 156.
- 591-851-951-1021.  
Anisole, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{OCH}_3$ .  
ST screwworms at 0.67%. 156.
- 591-851-952-993-1021.  
Ether, *o*-chlorobenzyl *p*-(1,1,3,3-tetramethyl-butyl)-phenyl-;  
 $\text{C}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{C}(\text{CH}_3)_3\text{CH}_2\text{C}(\text{CH}_3)_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-851-952-1001-1011.  
Ether, 5-*tert*-butyl-3-chloro-2-biphenyl ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{C}(\text{CH}_3)_3\text{OC}_6\text{H}_5$ . (Ethyl ether of 3-chloro-4-*tert*-butyl-6-phenylphenol).  
Fly spray. 112.
- 591-851-952-1001-1022.  
Ether, benzyl 4-*tert*-butyl-2-chloromethylphenyl-;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4(\text{CH}_3)_2\text{C}(\text{CH}_3)_3$ .  
Fly spray. 112, 688P.
- 591-851-952-1003-1011-1030.  
Ether, 2-chloroallyl *p*-phenylethylphenyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-(*p*-phenylethylphenoxy)-; 2-chloro-allyl ether of 4-phenyl-ethyl phenol).  
Fly spray. 112, 209P.
- 591-851-952-1003-1021-1030.  
Ether, allyl 2-chloro-4-benzylphenyl-;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4(\text{Cl})\text{OCH}_2\text{CH:CH}_3$ . (Propene, 3-(4-benzyl-2-chlorophenoxy)-; allyl ether of 2-chloro-4-benzyl phenol).  
Fly spray. 112, 209P.
- 591-851-952-1003-1021-1030.  
Ether, *p*-benzylphenyl 2-chloroallyl-;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 3-(*p*-benzylphenoxy)-2-chloro-; 2-chloro-allyl ether of 4-benzyl phenol).  
Fly spray. 112, 209P.
- 591-851-952-1003-1030.  
Ether, 2-biphenyl 2-chloroallyl-;
- $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-(*o*-phenylphenoxy)-; 2-chloro-allyl ether of 2-phenyl phenol).  
Fly spray. 112, 209P.
- 591-851-952-1003-1030.  
Ether, 3-biphenyl 2-chloroallyl-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-(*m*-phenylphenoxy)-; 2-chloroallyl ether of meta-phenyl phenol).  
Fly spray. 112, 209P.
- 591-851-952-1003-1030.  
Ether, allyl 2-chloro-4-biphenyl-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{OCH}_2\text{CH:CH}_3$ . (Propene, 3-(*o*-chlorophenoxy)-; allyl ether of 2-chloro-4-phenyl phenol).  
MT houseflies at 3%. 112, 209P.
- 591-851-952-1003-1030.  
Ether, allyl 6-chloro-2-biphenyl-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{Cl})\text{OCH}_2\text{CH:CH}_3$ . (Propene, 3-(2-chloro-6-phenylphenoxy)-; allyl ether of 6-chloro-2-phenyl phenol).  
MT houseflies at 3%. 112, 209P.
- 591-851-952-1003-1030.  
Ether, allyl 4-biphenyl 2-chloroallyl-;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{:CH}_3$ . (Propene, 2-chloro-3-xyloxy-; 2-chloro-allyl ether of 4-phenyl phenol).  
MT houseflies at 3%. 112, 209P.
- 591-851-952-1021.  
Ether, benzyl *o*-chlorophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{Cl}$ .  
MT houseflies at 3%. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-851-952-1021.  
Ether, benzyl *p*-chlorophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{Cl}$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-851-953-1021.  
Ether, 2-biphenyl *o*-chlorobenzyl-;  
 $\text{ClC}_6\text{H}_4\text{CH}_2\text{OC}_6\text{H}_4\text{C}_6\text{H}_5$ . (Ether, *o*-chlorobenzyl *o*-phenylphenyl).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-851-954-1003-1193-1325.  
Phosphonium hydroxide, (isobutyl-4-chlorophenoxy) triphenyl-;  $[\text{C}_6\text{H}_4(\text{Cl})\text{C}_6\text{H}_4\text{O}](\text{C}_6\text{H}_5)_3\text{POH}$ .  
T as mothproofing agent. 441P, 1179.
- 591-851-954-1021-1193-1325.  
Phosphonium hydroxide, (2-chloro-toloxo) triphenyl-, CU;  $[\text{Cl}(\text{CH}_3)\text{C}_6\text{H}_4\text{O}](\text{C}_6\text{H}_5)_3\text{POH}$ . (Phosphonium hydroxide, (2-chloro-1-methylphenoxy)-triphenyl-).  
T as mothproofing agent. 441P, 1179.
- 591-851-954-1021-1193-1325.  
Phosphonium hydroxide, (2-chloro-*p*-toloxo) triphenyl-;  $[\text{Cl}(\text{CH}_3)\text{C}_6\text{H}_4\text{O}](\text{C}_6\text{H}_5)_3\text{POH}$ . (Phosphonium hydroxide, (2-chloro-4-methylphenoxy) triphenyl-).  
T as mothproofing agent. 441P, 1179.
- 591-851-954-1193-1325.  
Phosphonium hydroxide, (*o*-chlorophenoxy) triphenyl-;  $(\text{ClC}_6\text{H}_4\text{O})(\text{C}_6\text{H}_5)_3\text{POH}$ .  
T as mothproofing agent. 441P, 1179.
- 591-851-954-1193-1325.  
Phosphonium hydroxide, (*p*-chlorophenoxy) triphenyl-;  $(\text{ClC}_6\text{H}_4\text{O})(\text{C}_6\text{H}_5)_3\text{POH}$ .  
T as mothproofing agent. 441P, 1179.
- 591-851-1022.  
Ether, chloromethyl methyl-;  $\text{ClCH}_2\text{OCH}_3$ . (Chloromethyl ether).  
NT rice weevil and red scale. 268, 1180.
- 591-851-1027-1030.  
Ethers, alkylaryl, chloro-, CU;  
 $\text{RO}(\text{CnH}_{2n}\text{O})_x\text{CnH}_{2n}\text{Y}$ . (Aryloxy-polyalkylene ether chlorides).  
Wherein R represents an aromatic radical, Y is a member of the group consisting of chlorine and bromine, n represents an integer from 2 to 5 inclusive, and x is an integer not greater than 4.  
123P.
- 591-852-951-1001-1003-1030.  
Ether, 4-*tert*-butyl-3-chlorophenyl 2-chloroallyl-;

- (CH<sub>3</sub>)<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>(Cl)OCH<sub>2</sub>C(Cl):CH<sub>3</sub>. (Propene, 3-(4-*tert*-butyl-2-chlorophenoxy)-2-chloro-; 2-chloroallyl ether of 2-chloro-4-tertiary butyl phenol).  
Fly spray. 112, 209P.
- 591-852-951-1001-1011.  
Ether, 4-*tert*-butyl-2-chlorophenyl 2-chloroethyl-; (CH<sub>3</sub>)<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>(Cl)OCH<sub>2</sub>CH<sub>2</sub>Cl. (β-(2-Chloro-4-tertiarybutyl-phenoxy)-ethyl chloride). 211P.
- 591-852-951-1003-1030.  
Ether, allyl 2,4-dichlorophenyl-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OCH<sub>2</sub>CH:CH<sub>2</sub>. (Propene, 3-(2,4-dichlorophenoxy)-; allyl ether of 2,4-dichlorophenol).  
Fly spray. 112, 209P.
- 591-852-952-1021.  
Ether, *o*-chlorobenzyl *o*-chlorophenyl-; ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>Cl.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-852-952-1021.  
Ether, *o*-chlorobenzyl *p*-chlorophenyl-; ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>Cl.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-852-952-1023.  
Ether, benzyl 2,4-bis(chloromethyl)phenyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>3</sub>(CH<sub>2</sub>Cl)<sub>2</sub>.  
Fly spray. 112, 688P.
- 591-852-954-1193-1325.  
Phosphonium hydroxide, (2,4-dichlorophenoxy)-triphenyl-; (Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-852-954-1193-1325.  
Phosphonium hydroxide, (2,6-dichlorophenoxy) triphenyl-; (Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-852-1012.  
Ether, 1,2-dichloroethyl ethyl; CH<sub>3</sub>CHClCH<sub>2</sub>ClOCH<sub>2</sub>CH<sub>3</sub>. (α,β-Dichloroethyl ether).  
HT rice weevil; NT wireworms. 846, 1180.
- 591-852-1012.  
Ether, bis(2-chloroethyl)-; (ClCH<sub>2</sub>)<sub>2</sub>O. (Bis-(β-chloro-ethyl) ether; β,β'-dichloroethylether; 1-chloro-2-(β-chloroethoxy)-ethane; *sym*-dichloro-ethyl ether).  
T wireworms, rice weevil, and *Comptosia nemiphar*. 302P, 846, 1143, 1180, 1331.
- 591-852-1022.  
Ether, bis(chloromethyl)-; ClCH<sub>2</sub>OCH<sub>2</sub>Cl. (Dichloromethyl ether).  
HT rice weevil; NT red scale. 268, 1180.
- 591-852-1027.  
Ether, bis(chloroalkyl)-. (Dichloroalkyl ethers). 1088P.
- 591-853-954-1193-1325.  
Phosphonium hydroxide, trichlorophenoxy triphenyl-; (Cl<sub>3</sub>C<sub>6</sub>H<sub>2</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-854-951-1003-1030.  
Ether, 2-chloroallyl 2,4,6-trichlorophenyl-; Cl<sub>3</sub>C<sub>6</sub>H<sub>2</sub>OCH<sub>2</sub>C(Cl):CH<sub>3</sub>. (Propene, 2-chloro-3-(2,4,6-trichlorophenoxy)-; 2-chloro-allyl ether of 2,4,6-trichlorophenol).  
Fly spray. 112, 209P.
- 591-861-951-1021.  
Anisole, *o*-fluoro-; FC<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>.  
NT *Chrysomphalus aurantii*. 268.
- 591-861-951-1021.  
Anisole, *p*-fluoro-; FC<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>.  
NT *Chrysomphalus aurantii*. 268.
- 591-871-951-1011.  
Phenetole, *p*-iodo-; IC<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>CH<sub>3</sub>.  
T screwworms. 110, 156.
- 591-871-951-1021.  
Anisole, *o*-iodo-; IC<sub>6</sub>H<sub>4</sub>OCH<sub>3</sub>.  
T screwworms. 110, 156, 946.
- 591-871-952-1001-1011.  
Ether, *tert*-butyl-iodo-2-biphenyl ethyl, CU; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>(I)(OC<sub>6</sub>H<sub>5</sub>)C(CH<sub>3</sub>)<sub>3</sub>. (Ethyl ether of tertiary-butyl-mono-iodo-6-phenylphenol).  
Fly spray. 110, 112, 212P.
- 591-871-952-1021.  
Ether, benzyl-*p*-iodophenyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>I. (4-Iodophenyl benzyl ether).  
T houseflies and other insect pests. 110, 112, 688P.
- 591-881-975-1003-1030.  
Ethers, allyl phenyl, substituted; ROX. (Propene, substituted phenoxy-; allyl ethers of substituted phenols).  
Wherein R<sub>1</sub> represents an aromatic radical and X is selected from the group consisting of the allyl and 2-chloroallyl radicals.  
Fly spray. 112, 209P.
- 591-881-975-1027.  
Ethers, alkylaryl, halogenated, CU; ROCH<sub>2</sub>CH<sub>2</sub>X. 211P.
- 591-910-1003-1030.  
Ether, allyl phenanthryl, CU; C<sub>14</sub>H<sub>10</sub>OCH<sub>2</sub>CH:CH<sub>2</sub>. (Propene, 3-phenanthroxy-; allyl ether of phenanthrol).  
Fly spray. 112, 209P.
- 591-924-951.  
Ether, 2-naphthyl phenyl-; C<sub>10</sub>H<sub>7</sub>OC<sub>6</sub>H<sub>5</sub>. (β-Naphthyl phenyl ether).  
MT houseflies at 3%. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-951-993-1021.  
Ether, tetrahydronaphthylmethyl 4-(1,1,3,3-tetramethylbutyl)phenyl-; C<sub>10</sub>H<sub>11</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>CH(CH<sub>3</sub>)<sub>3</sub>C(CH<sub>3</sub>)<sub>3</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-951-1001-1021.  
Ether, *p*-*tert*-butylphenyl tetrahydronaphthyl-; C<sub>10</sub>H<sub>11</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>C(CH<sub>3</sub>)<sub>3</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-951-1021.  
Ether, benzyl 1-naphthyl-; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OC<sub>10</sub>H<sub>7</sub>. (Benzyl α-naphthyl ether).  
T houseflies; NT *Bombyx mori* larvae. 112, 559, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-951-1021.  
Ether, 1-naphthylmethyl phenyl-; C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>5</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-951-1021.  
Ether, phenyl 2-tetrahydronaphthylmethyl-; C<sub>10</sub>H<sub>11</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>5</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-952-1021.  
Ether, 2-biphenyl 1-naphthylmethyl-; C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>5</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-952-1021.  
Ether, 2-biphenyl tetrahydronaphthylmethyl-; C<sub>10</sub>H<sub>11</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>5</sub>.  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-924-953-1193-1325.  
Phosphonium hydroxide, α-naphthoxytriphenyl-; (C<sub>10</sub>H<sub>7</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-924-953-1193-1325.  
Phosphonium hydroxide, β-naphthoxytriphenyl-; (C<sub>10</sub>H<sub>7</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-924-953-1193-1325.  
Phosphonium hydroxide, (tetrahydro-β-naphthoxy)-triphenyl-; (C<sub>10</sub>H<sub>11</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-924-954-1193-1325.  
Phosphonium hydroxide, (1-benzyl-2-naphthoxy)triphenyl-; (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>C<sub>10</sub>H<sub>6</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-924-954-1193-1325.  
Phosphonium hydroxide, (4-benzyl-1-naphthoxy)triphenyl-; (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>C<sub>10</sub>H<sub>6</sub>O)(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>POH.  
T as mothproofing agent. 441P, 1179.
- 591-924-1003-1030.  
Ether, allyl naphthyl-, CU; C<sub>10</sub>H<sub>7</sub>OCH<sub>2</sub>CH:CH<sub>2</sub>. (Propene, 3-naphthoxy-; allyl ether of naphthol).  
Fly spray. 112, 209P.
- 591-924-1011.  
Ether, ethyl 2-naphthyl.  
Repellent for blowflies. 1185.

- 591-924-1011.  
Ether, ethyl 1-tetrahydronaphthyl-;  $C_{10}H_{11}OC_2H_5$ . (ar- $\alpha$ -Tetrahydronaphthoethyl ether). 909P.
- 591-924-1011.  
Ether, ethyl 2-tetrahydronaphthyl-;  $C_{10}H_{11}OC_2H_5$ . (ar- $\beta$ -Tetrahydronaphthoethyl ether). 909P.
- 591-924-1021.  
Ether, methyl 1-tetrahydronaphthyl-;  $C_{10}H_{11}OCH_3$ . (ar- $\alpha$ -Tetrahydronaphtholmethyl ether). 909P.
- 591-924-1021.  
Ether, methyl 2-tetrahydronaphthyl-;  $C_{10}H_{11}OCH_3$ . (ar- $\beta$ -Tetrahydronaphtholmethyl ether). 909P.
- 591-924-1021.  
Ether, methyl-1-naphthyl-;  $C_{10}H_7OCH_3$ . (1-Methoxynaphthalene; methyl  $\alpha$ -naphthyl ether). HT *Carpocapsa pomonella* larvae; T *Leptinotarsa decemlineata*. 561, 1009, 1291.
- 591-924-1021.  
Ether, methyl 2-naphthyl-;  $C_{10}H_7OCH_3$ . ( $\beta$ -Naphthyl methyl ether; Nerolin). NT clothes moths. 739, 1176.
- 591-930-1011-1022.  
Ether, ethyl terpenyl-, CU. (Ethyl ether of mixed terpene hydrocarbons). T houseflies when used with pyrethrum and rotenone. 1103.
- 591-930-1023.  
Ether, methyl terpenyl-, CU. (Methyl ether of mixed terpene hydrocarbons). T houseflies when used with pyrethrum and rotenone. 1103.
- 591-932-1011-1023.  
Ether, ethyl pinyl-;  $C_{10}H_{15}OC_2H_5$ . (Ethyl ether of pinene). T houseflies when used with pyrethrum and rotenone. 1103.
- 591-932-1024.  
Ether, methyl pinyl-;  $C_{10}H_{15}OCH_3$ . (Methyl ether of pinene). T houseflies when used with pyrethrum and rotenone. 1103.
- 591-951-961-1021.  
Anisole, *p*-cyclohexyl-;  $C_6H_{11}C_6H_4OCH_3$ . T screwworms at 0.33-0.67%. 156.
- 591-951-983-1003-1030.  
Ether, allyl 4-octadecylphenyl-;  $C_{18}H_{37}C_6H_4OCH_2CH_2CH_3$ . (Propene, 3-(*p*-octadecanylethoxy)-; allyl ether of 4-octadecanylethanol). Fly spray. 112, 209P.
- 591-951-993-1003-1030.  
Ether, allyl *p*-tert-octylphenyl-;  $C_8H_{17}C_6H_4OCH_2CH_2CH_3$ . (Propene, 3-(*p*-tert-octylethoxy)-; allyl ether of 4-tert-octylethanol). Fly spray. 112, 209P.
- 591-951-999-1003-1030.  
Ether, allyl *p*-tert-amylphenyl-;  $C_8H_{17}C_6H_4OCH_2CH_2CH_3$ . (Propene, 3-(*p*-tert-amylethoxy)-; allyl ether of 4-tert-amylethanol). Fly spray. 112, 209P.
- 591-951-999-1021.  
Ether, *p*-tert-amylphenyl methyl-;  $CH_3OC_6H_4C(CH_3)_2C_6H_5$ . (*p*-Methoxy-*tert*-amylbenzene). T screwworms at 0.33-0.67%. 156.
- 591-951-1001-1003.  
Ether, allyl *p*-tert-butylphenyl-;  $(CH_3)_3CC_6H_4OCH_2CH_2CH_3$ . (Propene, 3-(*p*-tert-butylethoxy)-; allyl ether of 4-tert-butylethanol). Fly spray. 112, 209P.
- 591-951-1001-1021.  
Ether, benzyl butyl-;  $C_6H_5CH_2OC_4H_9$ . (*n*-Butyl benzylether). NT *Chrysomphalus aurantii*. 268.
- 591-951-1003-1021-1030.  
Ether, allyl *o*-tolyl-;  $CH_3C_6H_4OCH_2CH_2CH_3$ . (Propene, 3-*o*-tolylethoxy-; allyl ether of orthocresol). Fly spray. 112, 209P.
- 591-951-1003-1021-1030.  
Anethole;  $CH_3OC_6H_4CH=CHCH_3$ . (*p*-Propenylphenyl-methyl ether; *p*-propenylanisole; methyl allephenol). T houseflies and screwworm larvae; attractant for oriental fruit moth; NT red scale. 156, 268, 506, 1180, 1376.
- 591-951-1011.  
Phenetole;  $C_6H_5OC_2H_5$ . (Ethyl phenyl ether). NT screwworms. 156.
- 591-951-1021.  
Anisole;  $C_6H_5OCH_3$ . (Methoxybenzene; methyl phenyl ether). T clothes moths; NT screwworms. 156, 268, 506, 561, 1153, 1176, 1242P, 1376, 1377.
- 591-951-1022.  
Ether, methyl *m*-tolyl-;  $CH_3C_6H_4OCH_3$ . (*m*-Cresyl methyl ether; 3-methoxytoluene). NT *Bombyx mori* larvae. 561.
- 591-952.  
Phenyl ether;  $C_6H_5OC_6H_5$ . (Diphenyl ether). T mosquito larvae; ST houseflies at 2%. 112, 172, 687P.
- 591-952-961-1021.  
Ether, benzyl *o*-cyclohexylphenyl-;  $C_6H_{11}C_6H_4OCH_2C_6H_5$ . Fly spray. 112, 691P.
- 591-952-961-1021.  
Ether, benzyl *p*-cyclohexylphenyl-;  $C_6H_{11}C_6H_4OCH_2C_6H_5$ . MT houseflies at 2%. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-975-1021.  
Ethers, benzyl phenyl, acyl-, substituted. Phenyl benzyl ethers having an organic acyl group as a substituent in at least one of the benzene rings. 690P.
- 591-952-993-999.  
Ether, *sec*-amyl 5-octyl-2-biphenyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2$ . (*sec*-Amylether of 4-*tert*-octyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-993-1001.  
Ether, 5-*tert*-butyl-2-biphenyl *n*-octyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2OC_2H_5$ . (*n*-Octyl ether of 4-*tert*-octyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-993-1011.  
Ether, ethyl 5-*tert*-octyl-2-biphenyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2OC_2H_5$ . (Ethyl ether of 4-*tert*-butyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-993-1021.  
Ether, benzyl *o*-(1-methylheptyl)phenyl-;  $C_8H_{17}CH_2OC_6H_4C_6H_5$ . Fly spray. 112, 691P.
- 591-952-993-1021.  
Ether, benzyl *p*-(1,1,3,3-tetramethylbutyl) phenyl-;  $C_8H_{17}CH_2OC_6H_4C(CH_3)_3CH_2C(CH_3)_3$ . Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-993-1022.  
Ether, benzyl 2-methyl-4-(1-methylheptyl)phenyl-;  $C_8H_{17}CH_2OC_6H_4(C_6H_5)CH(CH_3)C_6H_{13}$ . Fly spray. 112, 691P.
- 591-952-997-1011.  
Ether, ethyl 5-*tert*-hexyl-2-biphenyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2OC_2H_5$ . (Ethyl ether of 4-*tert*-hexyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-999-1001.  
Ether, *n*-amyl 5-*tert*-butyl-2-biphenyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2OC_5H_{11}$ . (*n*-Amyl ether of 4-*tert*-butyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-999-1001.  
Ether, 4-*tert*-amyl-3-biphenyl isobutyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2OCH_2CH(CH_3)_2$ . (Isobutyl ether of 2-*tert*-amyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-999-1011.  
Ether, 5-*tert*-amyl-2-biphenyl ethyl-;  $C_8H_{17}C_6H_4(C_6H_5)_2OC_2H_5$ . (Ethyl ether of 4-*tert*-amyl-6-phenylphenol). Fly spray. 112, 212P.
- 591-952-999-1021.  
Ether, *tert*-amylphenyl benzyl;  $C_8H_{17}CH_2OC_6H_4C_6H_5$ . Fly spray. 112, 691P.
- 591-952-999-1021.  
Ether, benzyl 4-(1,1-dimethylpropyl)phenyl-;  $C_8H_{17}CH_2OC_6H_4C(CH_3)_2CH_3$ .

- Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1001-1003.  
Ether, 6-*tert*-butyl-3-biphenyl isopropyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OCH}(\text{CH}_3)_2)\text{C}(\text{CH}_3)_3$ . (Isopropyl ether  
of 3-phenyl-4-*tert*-butylphenol).  
Fly spray. 112, 212P.
- 591-952-1001-1003-1030.  
Ether, allyl 4-*tert*-butyl-2-biphenyl;  
 $\text{CH}_3:\text{CHOCH}_2\text{OC}_6\text{H}_4(\text{C}_6\text{H}_5)\text{C}(\text{CH}_3)_3$ . (Propene, 3-(4-*tert*-butyl-3-phenylphenoxy)-; allyl ether of 4-*tert*-butyl-2-phenylphenol).  
Fly spray. 112, 209P.
- 591-952-1001-1011.  
Ether, 3-*tert*-butyl-2-biphenyl ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)\text{C}(\text{CH}_3)_3$ . (Ethyl ether of 3-*tert*-butyl-6-phenylphenol).  
Fly spray. 112, 212P.
- 591-952-1001-1011.  
Ether, 3-*tert*-butyl-4-biphenyl ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)\text{C}(\text{CH}_3)_3$ . (Ethyl ether of 2-*tert*-butyl-4-phenylphenol).  
Fly spray. 112, 212P.
- 591-952-1001-1011.  
Ether, 5-*tert*-butyl-2-biphenyl ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)\text{C}(\text{CH}_3)_3$ . (Ethyl ether of 4-*tert*-butyl-6-phenylphenol).  
HT houseflies at 3%. 112, 212P.
- 591-952-1001-1011-1021.  
Ether, 5-*tert*-butyl-3-methyl-2-biphenyl ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)(\text{CH}_3)\text{C}(\text{CH}_3)_3$ . (Ethyl ether of 2-methyl-4-*tert*-butyl-6-phenylphenol).  
Fly spray. 112, 212P.
- 591-952-1001-1021.  
Ether, benzyl *p*-*tert*-butylphenyl;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{C}(\text{CH}_3)_3$ .  
ST houseflies at 2%. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1001-1021.  
Ether, benzyl *o*-(2-methylallyl)phenyl;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_2\text{C}(\text{CH}_3)=\text{CH}_2$ .  
Fly spray. 112, 691P.
- 591-952-1001-1021.  
Ether, 5-*tert*-butyl-2-biphenyl methyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OCH}_3)\text{C}(\text{CH}_3)_3$ . (Methyl ether of 4-*tert*-butyl-6-phenylphenol).  
Fly spray. 112, 212P.
- 591-952-1001-1021.  
Ether, benzyl *p*-(1-methylpropyl)-phenyl;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}(\text{CH}_3)\text{C}_2\text{H}_5$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1002.  
Ether, *n*-butyl 5-*tert*-butyl-2-biphenyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OC}_4\text{H}_9)\text{C}(\text{CH}_3)_3$ . (*n*-Butyl ether of 4-*tert*-butyl-6-phenylphenol).  
Fly spray. 112.
- 591-952-1002.  
Ether, *tert*-butyl 4-*tert*-butyl-2-biphenyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{OC}(\text{CH}_3)_3)\text{C}(\text{CH}_3)_3$ . *tert*-Butyl ether of 4-*tert*-butyl-6-phenylphenol).  
Fly spray. 112, 212P.
- 591-952-1002-1011.  
Ether, 3,5-di-*tert*-butyl-2-biphenyl ethyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_3(\text{C}(\text{CH}_3)_3)_2\text{OC}_2\text{H}_5$ . (Ethyl ether of 2,4-di-*tert*-butyl-6-phenylphenol).  
Fly spray. 112, 212P.
- 591-952-1003-1021-1030.  
Ether, *o*-allylphenyl benzyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_2-\text{CH}:\text{CH}_2$ .  
MT houseflies at 2%. 112, 688, 690P, 693P, 694P, 695P, 696P.
- 591-952-1003-1021-1030.  
Ether, allyl 4-benzylphenyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OCH}_2-\text{CH}:\text{CH}_2$ .  
(Propene, 3-(*p*-benzylphenoxy)-; allyl ether of 4-benzyl phenol).  
Fly spray. 112, 209P.
- 591-952-1003-1022.  
Ether, benzyl 2-isopropyl-5-methylphenyl;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{CH}_3)_2\text{CH}(\text{CH}_3)_2$ .  
Fly spray. 112, 691P.
- 591-952-1003-1022.  
Ether, benzyl thymyl;  
 $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4(\text{CH}_3)\text{CH}(\text{CH}_3)_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1003-1030.  
Ether, allyl 2-biphenyl;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_2\text{CH}:\text{CH}_2$ .  
(Propene, 3-(*o*-phenylphenoxy)-; allyl ether of 2-phenylphenol).  
Fly spray. 112, 209P.
- 591-952-1003-1030.  
Ether, allyl 4-biphenyl;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_2\text{CH}:\text{CH}_2$ .  
(Propene, 3-xenoxy; allyl ether of 4-phenylphenol).  
MT houseflies at 3%. 112, 209P.
- 591-952-1011.  
Ether, 4-biphenyl ethyl;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_5$ .  
(*p*-Ethoxydiphenyl).  
T screwworms at 0.10-0.17%. 186, 559.
- 591-952-1021.  
Ether, benzyl phenyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_5$ .  
ST houseflies at 2%. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1021.  
Ether, 2-biphenyl methyl;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_3$ .  
(*o*-Methoxydiphenyl).  
ST screwworms at 0.67%. 186.
- 591-952-1021.  
Ether, 4-biphenyl methyl;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}_3$ .  
(*p*-Methoxydiphenyl).  
T screwworms at 0.05-0.08%. 186.
- 591-952-1021-1027.  
Ethers, alkylphenyl benzyl, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{R}$ .  
Wherein R is an alkyl group containing at least 2 carbon atoms.  
Fly spray. 112, 688P, 691P.
- 591-952-1022.  
Ether, benzyl *m*-tolyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1022.  
Ether, benzyl *o*-tolyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1022.  
Ether, benzyl *p*-tolyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{CH}_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1022.  
Benzyl ether;  $\text{C}_6\text{H}_5\text{CH}_2\text{OCH}_2\text{C}_6\text{H}_5$ .  
NT red scale. 208.
- 591-952-1023.  
Ether, benzyl xylyl, CU;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_3(\text{CH}_3)_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-952-1027.  
Ethers, alkylphenyl, substituted, CU;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4(\text{R})\text{OC}_n\text{H}_{2n+1}$ .  
Alkyl ethers of alkylated phenyl-phenols, wherein at least one tertiary alkyl radical is attached to the benzene ring, and having the above formula, wherein R represents a tertiary alkyl group and n an integer.  
Fly spray. 112, 212P.
- 591-952-1027.  
Ethers, acylphenyl acylbenzyl, CU.  
An insecticidal composition containing a phenyl benzyl ether having an organic acyl group as a substituent in at least one of the benzene rings.  
Fly spray. 112, 690P.
- 591-952-1045.  
Ethers, benzyl-substituted phenyl, CU;  $\text{BsOPh(A)Y}$ .  
The above formula wherein Bs represents a benzyl group, Ph represents a phenyl nucleus, Y represents a member of the group consisting of hydrogen, aliphatic hydrocarbon groups, and a nitro group, and A represents a neutral substituent selected from the group consisting of salts, esters, and amides of  $-\text{COOH}$  and  $-\text{SO}_3\text{H}$  groups.  
Fly spray. 112, 693P.
- 591-953-1021.  
Ether, benzyl 2-biphenyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{C}_6\text{H}_5$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-953-1021.  
Ether, benzyl 4-biphenyl;  $\text{C}_6\text{H}_5\text{CH}_2\text{OC}_6\text{H}_4\text{C}_6\text{H}_5$ .  
(Ether, benzyl xenyl; benzyl 4-phenylphenyl ether).

- MT houseflies at 2%. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-953-1021.  
Ether, diphenylmethyl phenyl;  $(C_6H_5)_2CHOC_6H_5$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-953-1022.  
Ether, benzyl *p*-benzylphenyl;  $C_6H_5CH_2OC_6H_4CH_2-C_6H_5$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.
- 591-954-1021-1193-1325.  
Phosphonium hydroxide, *m*-toloxytriphenyl-;  
 $(CH_3C_6H_4O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-954-1021-1193-1325.  
Phosphonium hydroxide, *o*-toloxytriphenyl-;  
 $(CH_3C_6H_4O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-954-1021-1193-1325.  
Phosphonium hydroxide, *p*-toloxytriphenyl-;  
 $(CH_3C_6H_4O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-954-1022-1193-1325.  
Phosphonium hydroxide, (3,5-dimethylphenoxy)triphenyl-;  $[(CH_3)_2C_6H_3O](C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-954-1023-1193-1325.  
Phosphonium hydroxide, phenoxytri-*o*-tolyl-;  
 $(C_6H_5O)(CH_3C_6H_4)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-954-1193-1325.  
Phosphonium hydroxide, phenoxytriphenyl-;  
 $(C_6H_5O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-955-1021-1193-1325.  
Phosphonium hydroxide, (*o*-benzylphenoxy)triphenyl-;  
 $(C_6H_5CH_2C_6H_4O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-955-1021-1193-1325.  
Phosphonium hydroxide, (*p*-benzylphenoxy)triphenyl-;  
 $(C_6H_5CH_2C_6H_4O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 591-957-1003-1022-1027.  
Ether, alkyl terpinyl-, CU;  $(CH_3)_2C(OR)C_6H_4-(OH)CH_3$ ?  
(Terpinyl aliphatic ether). 1275P.
- 591-999-1021.  
Ether, amyl methyl-;  $CH_3(CH_2)_4OCH_3$ . (Methyl *n*-amyl ether; 1-methoxypentane).  
HT rice weevil; NT red scale. 268, 1180.
- 591-1000.  
Amyl ether;  $C_5H_{11}OC_5H_{11}$ .  
NT rice weevil. 1180.
- 591-1000.  
Isomyl ether;  $[(CH_3)_2CHCH_2CH_2]_2O$ .  
NT rice weevil. 1180.
- 591-1001-1011.  
Ether, butyl ethyl;  $C_4H_9OC_2H_5$ . (Ethyl *n*-butyl ether; 1-ethoxybutane).  
HT rice weevil; ST red scale. 268, 1180.
- 591-1001-1013-1356.  
Phosphoric acid ( $\beta$ -butoxyethyl)-diethyl ester;  
 $(C_4H_9OC_2H_5)(C_2H_5)_2PO_4$ .  
T as mothproofing agent. 440P, 446P, 1179.
- 591-1001-1021.  
Ether, butyl methyl-;  $CH_3OC_4H_9$ . (Methyl *n*-butyl ether; 1-methoxybutane).  
HT rice weevil; ST red scale. 268, 1180.
- 591-1002.  
Butyl ether;  $C_4H_9OC_4H_9$ .  
MT rice weevil. 1180.
- 591-1003-1011-1030.  
Ether, allyl ethyl-;  $C_2H_5OCH_2CH=CH_2$ . (3-Ethoxypropene).  
MT wireworms at 805.0 mg. per liter. 268, 846, 1180.
- 591-1004.  
Propyl ether;  $C_3H_7OC_3H_7$ .  
HT rice weevil; T *Chrysomphalus aurantii*. 268, 1180.
- 591-1004.  
Isopropyl ether;  $(CH_3)_2CHOCH(CH_3)_2$ .  
HT rice weevil; T *Chrysomphalus aurantii*. 268, 1180.
- 591-1012.  
Ethyl ether;  $C_2H_5OC_2H_5$ . (Ethoxyethane; ethyl oxide; sulfuric ether; diethyl ether; ether).  
ST red scale and rice weevil; NT screwworms. 26, 268, 1180.
- 592-693-950-1003-1022-1030.  
Apiole;  $CH_3:CHCH_2C_6H_4((CH_3O)_2)(CH_3O)_2$ . (1-Allyl-2,5-di-methoxy 3,4-methylenedioxybenzene).  
ST *Lucilia cuprina* larvae. 849.
- 592-650-852-952-1022.  
Triasene, 1,3-bis(4-chloro-2-methoxyphenyl)-;  
 $Cl(CH_3O)C_6H_3N:NNHC_6H_3(OCH_3)Cl$ . (4-Chloro-2-methoxyphenyldiascamino-2'-methoxy-4'-chlorobenzene). 341P.
- 592-665-671-952-1022.  
*o*-Anisidine, 4-(*o*-anisylazo)-;  
 $CH_3OC_6H_4N:N(C_6H_3(NH_2)OCH_3)$ . (2-Amino-5-*o*-anisole).  
MT greenhouse red spider at 2%; NT silkworm and NT southern army worm at 4%. 559, 1481.
- 592-665-672-952.  
*o*-Anisidine, 4,4'-asodi-;  $[CH_3O(C_6H_4N)C_6H_4N]_2$ . (4,4'-Asobis(*o*-anisidine)-).  
NT mosquito larvae. 487.
- 592-665-852-952-1022.  
Asobenzene, 2,5-dichloro-2',4'-methoxy-;  
 $Cl_2C_6H_3N:N(C_6H_3(OCH_3)_2)$ . (4-(2,5-Dichlorophenylazo)-resorcinol dimethyl ether).  
NT mosquito larvae. 487.
- 592-665-952-1012.  
Phenetole, *p,p'*-asodi-;  $(C_6H_5OC_6H_4N)_2$ . (*p,p'*-Asobisphenetole).  
NT screwworms. 156, 1120.
- 592-672-952.  
Dianisidine, CU;  $[-C_6H_3(NH_2)OCH_3]_2$ . (Di(methoxy-aniline)-).  
NT screwworms and codling moth. 156, 915.
- 592-681-952-1003.  
Diphenylamine, 4,4'-diisopropoxy-;  $(C_6H_7OC_6H_4)_2-NH$ . (*p*-Isopropoxydiphenylamine).  
NT mosquito larvae. 487.
- 592-681-953-1022.  
Diphenylamine, 4,4'-dimethoxy-;  $(CH_3OC_6H_4)_2NH$ . (*p,p'*-Dimethoxydiphenylamine).  
MT mosquito larvae. 487.
- 592-701-951-1023.  
Benzonitrile, 2,6-dimethoxy-;  $(CH_3O)_2C_6H_3CN$ .  
NT mosquito larvae. 172.
- 592-781-852-954-1022.  
Sulfide, bis(5-chloro-2-phenylmethoxyphenyl)-;  
 $[C_6H_5CH_2OC_6H_3(Cl)_2]_2S$ .  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 592-781-954-1022.  
Sulfide, bis(4-phenylmethoxyphenyl)-;  
 $(C_6H_5CH_2OC_6H_4)_2S$ .  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P, 694P, 695P, 696P.
- 592-841-851-951-1003-1011-1021.  
Ether, 4-(3-bromotolyl) 2-(3-chloropropoxyethyl)-;  
 $CH_3(Br)C_6H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(2-bromo-*p*-toloxy)-2-(3-chloropropoxy)-;  $\beta$ -(2-bromo-4-methyl phenoxy)- $\gamma'$ -chloro ethyl propyl ether).  
Fly spray. 112, 213P.
- 592-841-851-951-1003-1011-1030.  
Ether, 2-bromoallyl 2-(*p*-chlorophenoxy)ethyl;  
 $ClC_6H_4OC_2H_4OCH_2CH_2C(Br)=CH_2$ . ( $\beta$ -4-Chlorophenoxy-ethyl) (2-bromo-allyl) ether).  
Fly spray. 112, 1019P.
- 592-841-851-951-1004-1021.  
Ether, 2-(2-bromo-*p*-tolyl)-1-(2-chloropropoxy)propyl-;  
 $Br(CH_3)C_6H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(4-bromo-*o*-toloxy)-2-(2-chloroethoxy);  $\beta$ -(2-methyl-4-bromophenoxy)- $\beta'$ -chlorodiethyl ether).  
Fly spray. 112, 215P.
- 592-841-851-951-1012-1031.  
Ether, 2-(4-bromotolyl) 2-chloroethoxyethyl;  
 $Br(CH_3)C_6H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(4-bromo-*o*-toloxy)-2-(2-chloroethoxy);  $\beta$ -(2-methyl-4-bromophenoxy)- $\beta'$ -chlorodiethyl ether).  
MT houseflies at 3%. 112, 213P, 215P.
- 592-841-852-951-1012.  
Ether, 2-bromo-4-chlorophenyl 2-chloroethoxyethyl;  
 $Cl(Br)C_6H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(2-bromo-



- 4-chlorophenoxy)-2-(2-chloroethoxy)-;  $\beta$ -(2-bromo-4-chlorophenoxy)- $\beta'$ -chlorodiethyl ether).  
MT houseflies at 3%, 112, 214P, 215P.
- 592-841-853-951-1003-1011-1030.  
Ether, 2-bromoallyl 2-(2,4,6-trichlorophenoxy)ethyl;  
 $\text{Cl}_3\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OCH}_2\text{C}(\text{Br})\text{CH}_3$ . ( $\beta$ -(2,4,6-Trichlorophenoxyethyl) (2-bromoallyl) ether).  
Fly spray. 112, 1019P.
- 592-841-853-951-1004.  
Ether, 1-(2-bromopropoxyisopropyl) 2,4,6-trichlorophenyl-;  
 $\text{Cl}_3\text{C}_6\text{H}_3\text{OCH}(\text{CH}_3)\text{CH}_2\text{OCH}_2\text{CH}(\text{Br})\text{CH}_3$ . (Propane, 1-2-bromopropoxy)-2-(2,4,6-trichlorophenoxy)-;  $\beta$ -(2,4,6-trichloro-phenoxy)- $\beta'$ -bromodipropyl ether).  
Fly spray. 112, 215P.
- 592-841-853-951-1012.  
Ether, 2-bromoethoxyethyl 2,4,6-trichlorophenyl-;  
 $\text{Cl}_3\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-(2-bromoethoxy)-2-(2,4,6-trichlorophenoxy)-;  $\beta$ -(2,4,6-trichlorophenoxy)- $\beta'$ -bromodiethyl ether).  
Fly spray. 112, 214P, 215P.
- 592-841-853-951-1012.  
Ether, 2-bromo-4,6-dichlorophenyl 2-chloroethoxyethyl-;  
 $\text{Cl}_2(\text{Br})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-bromo-4,6-dichlorophenoxy)-2-(2-chloroethoxy)-;  $\beta$ -(2-bromo-4,6-dichloro-phenoxy)- $\beta'$ -chlorodiethyl).  
MT houseflies at 3%, 112, 214P, 215P.
- 592-841-853-951-1012.  
Ether, 4-bromo-2,6-dichlorophenyl 2-chloroethoxyethyl-;  
 $\text{Cl}_2(\text{Br})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(4-bromo-2,6-dichlorophenoxy)-2-(2-chloroethoxy)-;  $\beta$ -(4-bromo-2,6-dichloro-phenoxy)- $\beta'$ -chlorodiethyl ether).  
MT houseflies at 3%, 112, 214P, 215P.
- 592-841-853-951-1012-1021.  
Ether, 2-bromoethoxyethyl 3-(2,4,6-trichlorotolyl)-;  
 $\text{Cl}_3(\text{CH}_3)\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-(2-bromoethoxy)-2-(2,4,6-trichloro-m-toloxyl)-;  $\beta$ -(2,4,6-trichloro-5-methyl-phenoxy)- $\beta'$ -bromodiethyl ether).  
Fly spray. 112, 213P.
- 592-841-871-951-1012.  
Ether, 2-bromoethoxyethyl  $p$ -iodophenyl-;  
 $\text{IC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-(2-bromoethoxy)-2-( $p$ -iodophenoxy)-;  $\beta$ -(4-iodophenoxy)- $\beta'$ -bromodiethyl ether).  
T houseflies. 110, 112, 214P.
- 592-842-851-951-1012.  
Ether, 2-chloroethoxyethyl 2,4-dibromophenyl-;  
 $\text{Br}_2\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2,4-dibromophenoxy)-;  $\beta$ -(2,4-dibromophenoxy)- $\beta'$ -chlorodiethyl ether).  
MT houseflies at 3%, 112, 214P, 215P.
- 592-842-951-999-1012.  
Ether, 4-amyl-2-bromophenyl 2-bromoethoxyethyl-;  
 $\text{C}_5\text{H}_{11}\text{C}_6\text{H}_3(\text{Br})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-(2-bromoethoxy)-2-(4-n-amyl-2-bromophenoxy)-;  $\beta$ -(2-bromo-4-n-amyl-phenoxy)- $\beta'$ -bromodiethyl ether).  
Fly spray. 112, 213P, 215P.
- 592-842-951-1012.  
Ether, 2-bromoethoxyethyl 2-bromophenyl-;  
 $\text{BrC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-( $o$ -bromophenoxy)-2-(2-chloroethoxy)-;  $\beta$ -(2-bromo-phenoxy)- $\beta'$ -chlorodiethyl ether).  
Fly spray. 112, 214P.
- 592-843-851-951-1012.  
Ether, 2-chloroethoxyethyl 2,4,6-tribromophenyl-;  
 $\text{Br}_3\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2,4,6-tribromophenoxy)-;  $\beta$ -(2,4,6-tribromophenoxy)- $\beta'$ -chlorodiethyl ether).  
Fly spray. 112, 214P.
- 592-844-951-1012.  
Ether, 2-bromoethoxyethyl 2,4,6-tribromophenyl-;  
 $\text{Br}_3\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-(2-bromoethoxy)-2-(2,4,6-tribromophenoxy)-;  $\beta$ -(2,4,6-tribromophenoxy)- $\beta'$ -bromodiethyl ether).  
Fly spray. 112, 215P.
- 592-845-951-1012-1021.  
Ether, 2-bromoethoxyethyl 3-(2,4,5,6-tetrabromotolyl)-;  
 $\text{Br}_4(\text{CH}_3)\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Br}$ . (Ethane, 1-(2-bromoethoxy)-2-(2,4,5,6-tetrabromo-m-toloxyl)-;  $\beta$ -(2,4,5,6-tetrabromo-3-methyl-phenoxy)- $\beta'$ -bromodiethyl ether).  
Fly spray. 112, 213P.
- 592-851-871-951-1012.  
Ether,  $m$ -chlorophenyl 2-iodoethoxyethyl-;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . (Ethane, 1-( $m$ -chlorophenoxy)-2-(2-iodoethoxy)-;  $\beta$ -(3-chloro-phenoxy)- $\beta'$ -iododiethyl ether).  
Fly spray. 110, 112, 215P.
- 592-851-871-951-1012-1021.  
Ether,  $p$ -chlorophenyl 2-iodoethoxyethyl-;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . (Ether, 2-( $p$ -chlorophenoxy)-2'-iododiethyl);  $\beta$ -(4-chloro-phenoxy)- $\beta'$ -iododiethyl ether).  
T houseflies. 110, 112, 122P, 123P.
- 592-851-871-951-1012-1021.  
Ether, 2-chloroethoxyethyl 4-(3-iodotolyl)-;  
 $\text{I}(\text{CH}_3)\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(3-chloroethoxy)-2-(2-iodo- $p$ -toloxyl)-;  $\beta$ -(2-iodo-4-methylphenoxy)- $\beta'$ -chlorodiethyl ether).  
T flies, mosquitoes, moths, and similar insects. 110, 112, 213P, 215P.
- 592-851-871-951-1012-1021.  
Ether, 4(3-chlorotolyl) 2-iodoethoxyethyl-;  
 $\text{Cl}(\text{CH}_3)\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . (Ethane, 1-(3-chloro- $p$ -toloxyl)-2-(2-iodoethoxy)-;  $\beta$ -(2-chloro-4-methylphenoxy)- $\beta'$ -iodo diethyl ether).  
Fly spray. 110, 112, 213P.
- 592-851-951-961-1004-1030.  
Ether, 2-chloroallyl 3-( $o$ -cyclohexylphenoxy)propyl-;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{C}(\text{Cl})\text{CH}_3$ . (( $\gamma$ -2-Cyclohexyl-phenoxypropyl) (2-chloroallyl) ether).  
Fly spray. 112, 1019P.
- 592-851-951-961-1012.  
Ether, 2-chloroethoxyethyl  $p$ -cyclohexylphenyl-;  
 $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . ( $\beta$ -(2-Chloroethoxy)-4-cyclohexylphenetole; 2-(2-chloroethoxy)ethyl (4-cyclohexylphenyl) ether).  
T many species of insects. 13.
- 592-851-951-1001-1011-1021-1030.  
Ether, chlorobutyl 2-toloxethyl, CU;  
 $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (( $\beta$ -Toloxyl-ethyl) (monochloro-butenyl) ether).  
Fly spray. 112, 1019P.
- 592-851-951-1001-1012-1030.  
Ether, 2-(2-chloro-4-*tert*-butylphenoxy)ethyl vinyl;  
 $(\text{CH}_3)_3\text{C}(\text{Cl})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OCH}=\text{CH}_2$ . ( $\beta$ -(2-Chloro-4-*tert*-butyl phenoxy)-ethyl vinyl ether).  
Fly spray. 112, 1017P.
- 592-851-951-1003-1011-1021-1030.  
Ether, 2-chloroallyl 2- $o$ -toloxethyl;  
 $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{CH}_3$ . ( $\beta$ -(2-Toloxyl-ethyl) (2-chloro-allyl) ether).  
Fly spray. 112, 1017P, 1018P, 1019P.
- 592-851-951-1003-1011-1030.  
Ether, allyl 2-( $p$ -chlorophenoxy)ethyl;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{CH}=\text{CH}_2$ . ( $\beta$ -(4-Chlorophenoxy)-ethyl allyl ether).  
Fly spray. 112, 1017P, 1018P.
- 592-851-951-1011-1022.  
Acetophenone,  $\alpha$ -chloro-, dimethyl ketal;  
 $(\text{CH}_3)_2\text{C}(\text{CH}_3)\text{C}(\text{OCH}_3)_2$ . ( $\alpha$ -Chloroacetophenone-dimethylketal).  
T wheat weevil. 343P, 1160P.
- 592-851-951-1012-1030.  
Ether, 2-( $p$ -chlorophenoxy)ethyl vinyl;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}=\text{CH}_2$ . ( $\beta$ -(4-Chloro-phenoxy)-ethyl vinyl ether).  
Fly spray. 112, 1017P, 1018P.
- 592-851-951-1023.  
Benzaldehyde,  $o$ -chloro-, dimethyl acetal;  
 $\text{ClC}_6\text{H}_4\text{CH}(\text{OCH}_3)_2$ .  
T as mothproofing agent. 417P, 1175.
- 592-851-952-1001-1003-1030.  
Ether, 4-biphenyloxy-3-butyl 2-chloroallyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OCH}(\text{C}_6\text{H}_5)\text{CH}_2\text{OCH}_2\text{C}(\text{Cl})\text{CH}_3$ . (Ether, 2-chloroallyl 2-xenoxybutyl; ( $\beta$ -4-xenoxy-butyl) (2-chloro-allyl) ether).  
Fly spray. 112, 1019P.
- 592-851-953-1001-1011-1030.  
Ether, 2-biphenyloxy-2-ethyl 3-chloromethyl-allyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{CH}_2\text{C}(\text{Cl})\text{CH}_3$ . (Ether, 3-chloromethylallyl 2-( $o$ -phenylphenoxy) ethyl; ( $\beta$ -2-xenoxy-ethyl) (3-chloromethylallyl) ether).  
Fly spray. 112, 1019P.
- 592-851-953-1003-1011-1030.  
Ether, 2-biphenyl 3-ethyl 2-chloroallyl;  
 $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{CH}_3$ . (Ether, 2-chloroallyl 2-( $o$ -phenylphenoxy) ethyl; ( $\beta$ -2-xenoxy-ethyl) (2-chloro-allyl) ether).  
Fly spray. 112, 1019P.



592-851-953-1011-1021.

Methaps, (*p*-chlorophenoxy) (diphenyl)ethoxy-;  
 $\text{ClC}_6\text{H}_4\text{OC}(\text{C}_6\text{H}_5)_2\text{OC}_6\text{H}_5$ .

Fly spray. 112, 688P, 690P, 693P, 694P, 695P, 696P.

592-851-995-1027.

2-Propanone, 1-chloro-, dialkyl ketal;  
 $(\text{CH}_3)_2\text{CHC}(\text{OR})_2\text{CCl}(\text{CH}_3)_2$ . (Monochloroisopropyl ketone dialkyl ketal). 343P.

592-851-1003-1012.

2-Propanone, 1-chloro-, diethyl ketal;  
 $(\text{CH}_3\text{CH}_2\text{C})_2\text{CHC}(\text{OCC}_2\text{H}_5)_2$ . (Monochloracetone-diethyl ketal).

T wheat weevil. 343P, 1160P.

592-851-1013.

Acetaldehyde, chloro-, diethyl acetal;  
 $\text{ClCH}_2\text{CH}(\text{OC}_2\text{H}_5)_2$ . (Diethyl chloroacetal). 1237P.

592-851-1045.

Ethers, aryldialkyl chloroalkoxy, OU;  
 $\text{RO}(\text{C}(\text{R}')(\text{R}'')\text{CmHmOm})\text{wCnHnCl}$ . (Ethane, 1-(2-chloroalkoxy)-2-(aryloxy)alkoxy-; chloroalkoxy aryl dialkyl ethers).

The formula above wherein R represents an aromatic radical, R' and R'' represent a member of the group consisting of hydrogen and methyl, w is one of the integers 2 or 3, m is not greater than 3, and n is not greater than 4.

Fly spray. 112, 207P.

592-852-951-997-1012.

Ether, 2-chloroethoxyethyl 2-chloro-4-*tert*-hexylphenyl-;  
 $(\text{C}_6\text{H}_5)_2\text{C}(\text{CH}_3)\text{C}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2-chloro-4-*tert*-hexylphenoxy)-;  $\beta$ -(2-chloro-4-*tert*-hexylphenoxy)- $\beta'$ -chloro-diethyl ether).

Fly spray. 112, 213P.

592-852-951-1001-1004-1021.

Ether, 2-(3-chloro-5-*tert*-butyltolyl) 3-chloropropoxypropyl-;  
 $(\text{CH}_3)_2\text{CClC}_6\text{H}_4(\text{CH}_3)(\text{Cl})\text{OC}_3\text{H}_6\text{OC}_3\text{H}_6\text{Cl}$ . (Propane, 1-(3-chloropropoxy)-3-(1-chloro-6-methyl-4-*tert*-butylphenoxy)-;  $\gamma$ -(2-chloro-4-*tert*-butyl-6-methyl-phenoxy)- $\gamma'$ -chloro dipropyl ether).

Fly spray. 112, 213P.

592-852-951-1001-1012.

Ether, 2-chloro-4-*tert*-butylphenyl 2-chloroethoxyethyl-;  
 $(\text{CH}_3)_2\text{CClC}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(4-*tert*-butyl-2-chlorophenoxy)-;  $\beta$ -(2-chloro-4-*tert*-butylphenyl-phenoxy)- $\beta'$ -chloro-diethyl ether; ethane, 1-(4-*tert*-butyl-2-chlorophenoxy)-2-(2-chloroethoxy)-).

Fly spray. 112, 213P, 215P.

592-852-951-1001-1012-1021.

Ether, 2-(3-chloro-5-*tert*-butyltolyl) 2-chloroethoxyethyl-;  
 $(\text{CH}_3)_2\text{CClC}_6\text{H}_4(\text{CH}_3)(\text{Cl})\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(4-*tert*-butyl-2-chloro-6-methylphenoxy)-2-(2-chloroethoxy)-;  $\beta$ -(2-methyl-4-*tert*-butyl-6-chloro-phenoxy)- $\beta'$ -chloro diethyl ether).

Fly spray. 112, 215P.

592-852-951-1003-1011-1030.

Ether, 2-chloroallyl 2-(*p*-chlorophenoxy)ethyl;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{CH}_3$ . (( $\beta$ -4-chlorophenoxy-ethyl)(2-chloroallyl) ether).

Fly spray. 112, 1019P.

592-852-951-1001-1003-1011-1030.

Ether, 2-chloroallyl 2-(4-*tert*-butyl-2-chlorophenoxy)ethyl;  
 $(\text{CH}_3)_2\text{CClC}_6\text{H}_4(\text{Cl})\text{OC}_2\text{H}_4\text{OCH}_2\text{C}(\text{Cl})\text{CH}_3$ . (( $\beta$ -2-Chloro-4-*tert*-butyl-phenoxy-ethyl)(2-chloro-allyl) ether).

Fly spray. 112, 1019P.

592-852-951-1012.

Ether, 2-chloroethoxyethyl *o*-chlorophenyl-;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(*o*-chlorophenoxy)-;  $\beta$ -(2-chlorophenoxy)- $\beta'$ -chloro-diethyl ether).

MT houseflies at 3%. 112, 214P, 215P.

592-852-951-1012.

Ether, 2-chloroethoxyethyl *p*-chlorophenyl-;  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(*p*-chlorophenoxy)-; (2-(2-chloroethoxy)ethyl) (4-chlorophenyl) ether;  $\beta$ -(2-chloroethoxy)-4-chlorophenol).

T many species of insects. 13, 112, 214P, 215P.

592-852-952-1002-1021.

Methane, bis(2-*n*-butoxy-5-chlorophenyl)-;  
 $\text{CH}_3(\text{ClC}_6\text{H}_3\text{OC}_4\text{H}_9)_2$ . (2,2'-Di-*n*-butoxy-5,5'-dichlorodiphenyl methane).

T as mothproofing agent. 447P, 457P, 1179.

592-853-953-1013.

Ethane, 1-chloroethoxy-2-[*o*-chloro-*o*-( $\alpha$ -methylbenzyl)-2-biphenyl];  
 $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{C}(\text{C}_6\text{H}_5)(\text{Cl})\text{CH}(\text{CH}_3)\text{C}_6\text{H}_5$ . ( $\beta$ -(2-Phenyl- $\alpha$ -phenylethyl-chloro-phenoxy)- $\beta'$ -chlorodiethyl ether).

T nematodes and insects. 1287AP.

592-853-995-1027.

3-Pentanone, 2,4-dichloro-2,4-dimethyl-, dialkyl ketal;  
 $(\text{CH}_3)_2\text{CClC}(\text{OR})_2\text{CCl}(\text{CH}_3)_2$ . (Dichloroisopropyl ketone dialkyl ketal). 343P.

592-853-1003-1022.

2-Propanone, 1,1-dichloro-, dimethyl ketal;  
 $(\text{CHCl}_2)_2\text{CH}_2\text{C}(\text{OCH}_3)_2$ . (1,1-Dichloroacetone-dimethylketal).

T wheat weevil. 1160P.

592-853-1003-1022.

2-Propanone, 1,3-dichloro-, dimethyl ketal;  
 $(\text{CH}_2\text{Cl})_2\text{C}(\text{OC}_2\text{H}_5)_2$ . (1,3-Dichloroacetone-dimethylketal).

T wheat weevils. 343P, 1160P.

592-853-871-951-1004.

Ether, 1-[1-(2-iodoisopropoxy)isopropyl] 2,4,6-trichlorophenyl-;  
 $(\text{CH}_3)_2\text{IOCH}_2\text{CH}(\text{CH}_3)\text{OC}_6\text{H}_2\text{Cl}_3$ . (Ethane, 1-(2-iodoisopropoxy)-2-methyl-2-(2,4,6-trichlorophenoxy)-;  $\beta$ -(2,4,6-trichloro-phenoxy)- $\beta'$ -iodo-diisopropyl ether). 110, 123P.

592-853-871-951-1012.

Ether, 2-iodoethoxyethyl 2,4,6-trichlorophenyl-;  
 $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . (Ether, 2-iodo-2'-(2,4,6-trichlorophenoxy)diethyl;  $\beta$ -(2,4,6-trichlorophenoxy)- $\beta'$ -iodo-diethyl ether).

T black carpet beetle. 110, 112, 122P, 123P.

592-853-951-1001-1012.

Ether, 2-chloroethoxyethyl 4-*tert*-butyl 2,6-dichlorophenyl-;  
 $(\text{CH}_3)_2\text{CClC}_6\text{H}_3(\text{Cl})_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(4-*tert*-butyl-2,6-dichlorophenoxy)-;  $\beta$ -(2,6-dichloro-4-*tert*-butyl-phenoxy)- $\beta'$ -chloro-diethyl ether).

Fly spray. 112, 215P, 215P.

592-853-951-1003-1011-1030.

Ether, allyl 2-(2,4,6-trichlorophenoxy)ethyl;  
 $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{CH}_2\text{CH}_3$ . ( $\beta$ -(2,4,6-Trichlorophenoxy)-ethyl allyl ether).

Fly spray. 112, 1017P, 1018P.

592-853-951-1012.

Ether, 2-chloroethoxyethyl 2,4-dichlorophenyl-;  
 $\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2,4-dichlorophenoxy)-;  $\beta$ -(2,4-dichlorophenoxy)- $\beta'$ -chloro-diethyl ether).

MT houseflies at 3%. 112, 214P, 215P.

592-853-951-1012-1021.

Ether, 2-chloroethoxyethyl 2-(3,5-dichlorotolyl)-;  
 $\text{CH}(\text{Cl})\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(4,6-dichloro-*o*-toloxy)-;  $\beta$ -(2,4-dichloro-6-methyl phenoxy)- $\beta'$ -chloro-diethyl ether).

MT houseflies at 3%. 112, 213P, 215P.

592-853-952-1004.

Ether, 3-(3-chloropropoxy)-2-propyl 2,4-dichlorophenyl-;  
 $\text{Cl}_2\text{C}_6\text{H}_3\text{OCH}(\text{CH}_3)\text{CH}_2\text{OC}_3\text{H}_6\text{Cl}$ . (Propane, 1-(3-chloropropoxy)-2-(2,4-dichloro-phenoxy)-;  $\beta$ -(2,4-dichloro-phenoxy)- $\gamma$ -chloro-dipropyl ether).

Fly spray. 112, 214P.

592-854-951-997-1004.

Ether, 3-(3-chloropropoxypropyl) 2-hexyl-3,4,6-trichlorophenyl-;  
 $\text{C}_6\text{H}_3(\text{Cl})_3\text{C}_6\text{H}_2\text{OC}_3\text{H}_6\text{OC}_3\text{H}_6\text{Cl}$ . (Propane, 1-(3-chloropropoxy)-3-(3,4,6-trichloro-2-*n*-hexylphenoxy)-;  $\gamma$ -(2,4,6-trichloro-6-normal-hexyl-phenoxy)- $\gamma'$ -chloro-dipropyl ether).

Fly spray. 112, 215P.

592-854-951-1001-1011.

Ether, 2-(1-chloropropoxy)ethyl 2,4,6-trichlorophenyl-;  
 $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_3\text{H}_6\text{OC}_2\text{H}_4\text{CH}_2\text{Cl}$ . (Ethane, 1-(2-chloropropoxy)-2-(2,4,6-trichlorophenoxy)-;  $\beta$ -(2,4,6-trichloro-phenoxy)- $\beta'$ -chloro-ethyl propyl ether).

Fly spray. 112, 214P.

592-854-951-1004.

Ether, 3-(3-chloropropoxy)propyl 2,4,6-trichlorophenyl-;  
 $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_3\text{H}_6\text{OC}_3\text{H}_6\text{Cl}$ . (Propane, 1-(3-chloropropoxy)-3-(2,4,6-trichlorophenoxy)-;  $\gamma$ -(2,4,6-trichloro-phenoxy)- $\gamma'$ -chloro-dipropyl ether).

Fly spray. 112, 215P.

592-854-951-1012.

Ether, 2-chloroethoxyethyl 2,4,6-trichlorophenyl-;

- $\text{Cl}_3\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2,4,6-trichlorophenoxy)-;  $\beta$ -(2-chloroethoxy)-2,4,6-trichlorophenylether); (2-(2-chloroethoxy)-ethyl) (2,4,6-trichlorophenyl) ether).  
HT houseflies when dissolved in kerosene;  
T many species of insects. 13, 112, 209P, 215P.  
592-854-951-1012.  
Ether, 2-chloroethoxyethyl, 2,4,6-trichlorophenyl-;  $\text{Cl}_3\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2,4,6-trichlorophenoxy)-;  $\beta$ -(2,4,6-trichlorophenoxy)- $\beta'$ -chloro-diethyl ether).  
MT houseflies at 8%. 112, 214P, 215P.  
592-854-951-1012-1022.  
Ether, 2-chloroethoxyethyl 2,4,6-trichloro-3,5-xylyl-;  $\text{Cl}_3(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(3,5-dimethyl-2,4,6-trichlorophenoxy)-;  $\beta$ -(2,4,6-trichloro-3,5-dimethylphenoxy)- $\beta'$ -chloro-diethyl ether).  
Fly spray. 112, 213P, 215P.  
592-855-951-1012.  
Ether, (2-(2-chloroethoxy)ethyl) 2,3,4,6-tetrachlorophenyl-;  $\text{Cl}_4\text{C}_6\text{HOC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2,3,4,6-tetrachlorophenoxy)-;  $\beta$ -(2-chloroethoxy)-2,3,4,6-tetrachlorophenylether).  
T many species of insects. 13, 112, 214P.  
592-855-951-1012-1022.  
Ether, 2-chloroethoxyethyl 2,3,4,6-tetrachloro-2-tolyl-;  $\text{CH}_3(\text{Cl})_4\text{C}_6\text{HOC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(2-tetrachloro-m-toloxyl)-;  $\beta$ -(2,3,4,6-tetrachloro-3-methyl-phenoxy)- $\beta'$ -chloro-diethyl ether).  
Fly spray. 112, 215P.  
592-855-953-1002-1021.  
Methane, bis(2-n-butoxy-3,5-dichlorophenyl)-4'-chlorophenyl-;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_2\text{H}_5)_2\text{C}_6\text{H}_4\text{Cl}$ . (2,2'-Di-n-butoxy-3,5,3',5',4"-pentachlorotriphenyl methane).  
T as mothproofing agent. 447P, 457P, 1179.  
592-856-951-1012.  
Ether, 2-chloroethoxyethyl pentachlorophenyl-;  $\text{Cl}_5\text{C}_6\text{HOC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2-(pentachlorophenoxy)-;  $\beta$ -(pentachloro-phenoxy)- $\beta'$ -chloro-diethyl ether).  
Fly spray. 112, 214P, 215P.  
592-857-953-1002-1021.  
Methane, bis(2-n-butoxy-3,5-dichlorophenyl)-2',4',5'-trichlorophenyl-;  $\text{CH}(\text{Cl}_2\text{C}_6\text{H}_3\text{OC}_2\text{H}_5)_2\text{C}_6\text{H}_3\text{Cl}_3$ . (2,2'-Di-n-butoxy-3,5,3',5',2'',4'',5''-heptachlorotriphenylmethane).  
T as mothproofing agent. 447P, 457P, 1179.  
592-871-951-1012.  
Ether, 2-(o-cyclohexylphenoxy)-2'-iododiethyl- $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . ( $\beta$ -(2-Cyclohexyl-phenoxy)- $\beta'$ -iodo-diethyl ether).  
T houseflies. 110, 112, 122P, 123P.  
592-871-951-1012.  
Ether, 2-iodo-2'-phenoxydiethyl-;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . ( $\beta$ -Phenoxy- $\beta'$ -iodo-diethyl ether).  
MT houseflies. 110, 112, 122P, 123P.  
592-871-953-1012.  
Ether, 4-biphenyl 1-(2-iodoethoxyethyl)-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . (Ethane, 1-(2-iodoethoxy)-2-xenonyl-;  $\beta$ -(4-xenonyl)- $\beta'$ -iodo-diethyl ether).  
110, 123P.  
592-881-1021-1045.  
Acetals of halogenated ketones;  $\text{RCOR}(\text{X})\text{OR}$ . (Stabilized by addition of an acid-binding substance such as  $\text{MgO}$ , and  $\text{Na}_2\text{HPO}_4$ ). 1159P.  
592-887-951-1027.  
Ethers, alkylhalophenoxyalkyl haloalkyl-;  $\text{Xn}(\text{Yn})\text{C}_6\text{H}_4\text{ORORX}$ . (Ethane, haloalkoxy alkyl-halophenoxy-).  
The above formula wherein each R represents an alkylene radical containing not more than 3 carbon atoms, each X represents halogen, Y represents an alkyl group containing not more than 6 carbon atoms, and n and n' are integers, the sum of which is not greater than 5.  
Fly spray. 112, 213P.  
592-887-951-1027.  
Ethers, halophenoxyalkyl haloalkyl-;  $\text{XnC}_6\text{H}_4\text{ORORX}$ . (Ethane, haloalkoxy halophenoxy-).  
The above formula wherein each R represents an alkylene radical containing not more than 3 carbon atoms, each X represents halogen, and n represents an integer not greater than 5.  
Fly spray. 112, 214P.  
592-887-951-1027.  
Ethers, aryloxy-halo-dialkyl-;  $\text{Xn}(\text{Ym})\text{C}_6\text{H}_4\text{ORORX}$ . The above formula wherein each R represents an alkyl radical containing not more than 3 carbon atoms, each X a halogen, Y either hydrogen or an alkyl radical containing not more than 6 carbon atoms, n an integer not greater than 5, and m an integer not greater than 2.  
Fly spray. 112, 215P.  
592-951-951-1004-1030.  
Ether, allyl p-cyclohexylphenoxypropyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{CH}_2\text{CH}_3$ . (4-Cyclohexylphenoxy-propyl allyl ether).  
Fly spray. 112, 1017P, 1018P.  
592-951-951-1012-1030.  
Ether, 2-(o-cyclohexylphenoxy)ethyl vinyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}=\text{CH}_2$ . ( $\beta$ -(2-Cyclohexylphenoxy)-ethyl vinyl ether).  
Fly spray. 112, 1017P, 1018P.  
592-951-1000.  
Benzene, 1,4-diamyloxy-;  $\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)_2$ . (Diamylhydroquinone).  
MT mosquito and codling moth larvae; NT *Bombyx mori* larvae. 457, 559, 1291.  
592-951-1001-1011-1021-1030.  
Ether, 2-methylallyl 2-(2-toloxyl)ethyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{C}(\text{CH}_3)=\text{CH}_2$ . ( $\beta$ -(2-Toloxyl)-ethyl 2-methylallyl ether).  
Fly spray. 112, 1017P, 1018P.  
592-951-1001-1012-1030.  
Ether, 2-(p-tert-butylphenoxy)ethyl vinyl-;  $(\text{CH}_3)_3\text{CC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}=\text{CH}_2$ . ( $\beta$ -(4-tertiary-Bu-tyl-phenoxy)-ethyl vinyl ether).  
Fly spray. 112, 1017P, 1018P.  
592-951-1003-1011-1021-1030.  
Ether, allyl 2-(o-toloxyl)ethyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}_2\text{CH}_2\text{CH}_3$ . ( $\beta$ -(2-Toloxyl)-ethyl allyl ether).  
Fly spray. 112, 1017P, 1018P.  
592-951-1003-1011-1030.  
Ether, allyl 2-phenoxyethyl-;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_4\text{OCH}_2\text{CH}_2\text{CH}_3$ . ( $\beta$ -Phenoxy-ethyl allyl ether).  
T houseflies. 112, 1017P, 1018P.  
592-951-1004-1030.  
Ether, allyl phenoxypropyl-;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_4\text{OCH}_2\text{CH}_2\text{CH}_3$ . (Phenoxy-propyl allyl ether).  
T houseflies. 112, 1017P, 1018P.  
592-951-1012.  
Benzene, 1,3-diethoxy-;  $\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)_2$ . (Resorcinol diethyl ether).  
T screwworms at 0.17-0.23%. 156.  
592-951-1012.  
Benzene, 1,4-diethoxy-;  $\text{C}_6\text{H}_4(\text{OC}_2\text{H}_5)_2$ . (Hydroquinone diethyl ether).  
T screwworms at 0.17-0.23%. 156.  
592-951-1012-1021-1030.  
Ether, 2-toloxyl-ethyl vinyl, OU;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_2\text{H}_4\text{OCH}=\text{CH}_2$ . ( $\beta$ -Toloxyl-ethyl vinyl ether).  
Fly spray. 112, 1017P, 1018P.  
592-951-1022.  
Veratrole;  $\text{C}_6\text{H}_4(\text{OCH}_3)_2$ . (1,2-Dimethoxybenzene).  
HT screwworms; MT *Aphis rumicis*. 156, 1377.  
592-951-1022.  
Benzene, 1,3-dimethoxy-;  $\text{C}_6\text{H}_4(\text{OCH}_3)_2$ . (Resorcinol dimethyl ether).  
T screwworms at 0.33-0.67%. 156.  
592-951-1022.  
Benzene, 1,4-dimethoxy-;  $\text{C}_6\text{H}_4(\text{OCH}_3)_2$ . (Hydroquinone dimethyl ether).  
T screwworms at 0.10-0.17%; NT *Bombyx mori*. 156, 561.  
592-952-1003.  
Propane, 1,3-diphenoxy-;  $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_2\text{CH}_2\text{OC}_6\text{H}_5$ . ( $\alpha,\gamma$ -Diphenoxypropane; trimethylene glycol diphenyl ether).  
NT screwworms. 156.  
592-952-1011.  
Ethane, 1,2-diphenoxy-;  $(-\text{CH}_2\text{OC}_6\text{H}_5)_2$ . ( $\alpha,\beta$ -Diphenoxyethane; glycol diphenyl ether; ethylene diphenyl ether).  
NT screwworm. 156.  
592-943-1012.  
Biphenyl, 4,4'-diethoxy-;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_5\text{C}_6\text{H}_4\text{OC}_2\text{H}_5$ . (p-Ethoxy biphenyl).  
NT silkworm. 559.

- 592-952-1013-1030.  
Ether, 2-(3-biphenyloxyethyl) vinyl;  
 $C_{10}H_8C_6H_4OC_2H_4OCH:CH_2$ . (Ether, 2-(*o*-phenyl-  
phenoxy)ethyl vinyl;  $\beta$ -(2-xenoxo)-ethyl vinyl  
ether).  
ST houseflies at 2.5%. 112, 1017P, 1018P.
- 593-952-1012-1030.  
Ether, 2-(4-biphenyloxyethyl) vinyl;  
 $C_{10}H_8C_6H_4OC_2H_4OCH:CH_2$ . (Ether, vinyl 2-xenoxo-  
ethyl;  $\beta$ -(4-xenoxo)-ethyl vinyl ether).  
MT houseflies at 2.5%. 112, 1017P, 1018P.
- 592-952-1021.  
Ether, *o*-methoxyphenyl phenyl;  $C_6H_5OC_6H_4OCH_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P,  
696P.
- 592-952-1022.  
Ether, benzyl *o*-methoxyphenyl;  $C_6H_5CH_2OC_6H_4OCH_3$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P,  
696P.
- 592-952-1021.  
Methane, diphenoxypheyl-;  $C_6H_5CH(OC_6H_5)_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P,  
696P.
- 592-952-1022.  
Benzene, 1,3-bis(benzoyloxy)-;  $C_6H_5(OCH_2C_6H_5)_2$ .  
(Benzene, 1,3-bis(phenylmethoxy)-; dibenzyl ether  
of resorcinol).  
Fly spray. 112, 688P, 690P, 691P, 692P, 693P,  
694P, 695P, 696P.
- 592-954-1003-1022.  
Propane, 2,2-bis(*p*-benzyloxyphenyl)-;  
 $(CH_3)_2C(C_6H_4OCH_2C_6H_5)_2$ . (Methane, bis-[4-(phe-  
nyl-methoxy)-phenyl]-dimethyl-).  
Fly spray. 112, 695P.
- 592-954-1003-1022.  
Propane, 2,2-bis(benzoyloxyphenyl)-; CU;  
 $(CH_3)_2C(C_6H_4OCH_2C_6H_5)_2$ . (Methane, bis-(phenyl-  
methoxyphenyl)-dimethyl-).  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P,  
696P.
- 592-954-1011-1193-1225.  
Phosphonium hydroxide, (*o*-ethoxyphenoxy) triphe-  
nyl-;  $(C_6H_5OC_6H_4O)(C_6H_5)_3POH$ .  
T as mothproofing agent. 441P, 1179.
- 592-954-1021.  
Methane, diphenoxydiphenyl-;  $(C_6H_5O)_2C(C_6H_5)_2$ .  
Fly spray. 112, 688P, 690P, 693P, 694P, 695P,  
696P.
- 592-955-1193.  
Phosphoric acid, *m*-diphenoxypheyl diphenyl ester?  
 $(C_6H_5O)_2C(C_6H_5)OP(OC_6H_5)_2O$ ? (Tetraphenyl resorcy-  
l ester of phosphoric acid).  
T clothes moth. 877P.
- 592-1011-1022.  
Acetaldehyde dimethyl acetal;  $CH_3CH(OCH_3)_2$ .  
(Dimethylacetal; ethylidene dimethyl ether).  
HT rice weevil; ST red scale. 268, 1180.
- 592-1012-1021.  
Methane, diethoxy-;  $CH_3(OC_2H_5)_2$ . (Ethylal).  
HT rice weevil; ST red scale. 268, 1180.
- 592-1013.  
Acetal;  $CH_3CH(OC_2H_5)_2$ . (Acetaldehyde diethyl ac-  
etal; ethylidene diethyl ether; 1,1-diethoxyethane).  
HT rice weevil; ST red scale. 268, 1180.
- 592-1023.  
Methylal;  $CH_3(OCH_3)_2$ . (Formal, methylene di-  
methyl ether; dimethoxy methane).  
T as mothproofing agent; MT rice weevil; NT  
red scale. 268, 417P, 1175, 1180.
- 593-851-871-951-1013.  
Ether, 2-(*p*-chlorophenoxy)-2'-(2-iodoethoxy)-di-  
ethyl;  $ClC_6H_4OC_2H_4OC_2H_4OC_2H_4I$ . ( $\beta$ -(4-Chloro-  
phenoxy)- $\beta'$ -(2-iodo-ethoxy)-diethyl ether).  
HT houseflies. 110, 112, 122P, 123P.
- 593-851-951-1001-1003-1013-1030.  
Ether, 2-(2-chloroallyloxy)-2'-(*p*-*tert*-butylphenoxy)-  
diethyl-;  $(CH_3)_3CC_6H_4OC_2H_4OC_2H_4OCH_2C(Cl)=CH_2$ . ( $\beta$ -(4-Tertiary-butyl-phenoxo)- $\beta'$ -(2-chloro-  
allyloxy)-diethyl ether).  
Fly spray. 112, 1019P.
- 593-851-951-1001-1013.  
Ether, 2-(2-chloroethoxy) 2'-(*p*-*tert*-butylphenoxy)  
diethyl-;  $(CH_3)_3CC_6H_4OC_2H_4OC_2H_4OC_2H_4Cl$ .  
The above formula wherein R represents an  
aromatic radical, and n is one of the integers 2 and  
3. The principal toxic ingredient in the formula is  
an aryloxyalkyl ether chloride. 207P.
- (Ethane, 1-[2-(*p*-*tert*-butylphenoxy) ethoxy]-3-(2-  
chloroethoxy)-;  $\beta$ -(4-tertiary-butyl-phenoxo)- $\beta'$ -  
(2-chloro-ethoxy) diethyl ether).  
MT houseflies at 3%. 112, 207P.
- 593-851-951-1013.  
Ether, 2-(2-chloroethoxy) 2'-phenoxy diethyl-;  
 $C_6H_5OC_2H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(2-chloro-  
ethoxy)-2-(2-phenoxyethoxy)-;  $\beta$ -phenoxy- $\beta'$ -(2-  
chloro-ethoxy)-diethyl ether).  
MT houseflies at 3%. 112, 207P.
- 593-851-951-1013-1021.  
Ether, 2-(2-chloroethoxy) 2'-(*p*-tolylloxy) diethyl;  
 $CH_3C_6H_4OC_2H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(2-chloro-  
ethoxy)-2-(2-*p*-tolylloxyethoxy)-;  $\beta$ -(4-methyl phe-  
noxy)- $\beta'$ -(2-chloro-ethoxy) diethyl ether).  
MT houseflies at 3%. 112, 207P.
- 593-851-975-1013.  
Ether, aryl chloroalkyl, CU;  $ROC_6H_4OC_2H_4OC_2H_4Cl$ .  
The above formula in which R is an aromatic radi-  
cal obtainable from a monohydric phenol. 141P.
- 593-852-951-1013.  
Ether, 2-(2-chloroethoxy) 2'-(*p*-chlorophenoxy)di-  
ethyl;  $ClC_6H_4OC_2H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(2-  
chloroethoxy)-2-[2-(*p*-chlorophenoxy) ethoxy]-;  $\beta$ -  
(4-chlorophenoxy)- $\beta'$ -(2-chloro-ethoxy)-diethyl  
ether).  
MT houseflies at 3%. 112, 207P.
- 593-854-951-1013.  
Ether, 2-(2-chloroethoxy) 2'-(2,4,6-trichlorophen-  
oxy) diethyl;  $Cl_3C_6H_2OC_2H_4OC_2H_4OC_2H_4Cl$ .  
(Ethane, 1-(2-chloroethoxy)-2-[2-(2,4,6-trichloro-  
phenoxy)-ethoxy]-;  $\beta$ -(2,4,6-trichlorophenoxy)- $\beta'$ -  
(2-chloro-ethoxy)-diethyl ether).  
MT houseflies at 3%. 112, 207P.
- 593-871-951-1013-1021.  
Ether, 2-(2-iodoethoxy) 2'-(*p*-tolylloxy) diethyl;  
 $CH_3C_6H_4OC_2H_4OC_2H_4OC_2H_4I$ . (Ethane, 1-[2-(2-  
iodoethoxy) ethoxy]-2-(*p*-tolylloxy)-;  $\beta$ -(4-tolyl)-  
 $\beta'$ -(2-iodo-ethoxy)-diethyl ether). 110, 123P.
- 593-951-1001-1003-1012-1030.  
Ether, 2-allyloxyethyl-2'-(*p*-*tert*-butylphenoxy)ethyl;  
 $(CH_3)_3CC_6H_4OC_2H_4OC_2H_4OCH_2CH_2CH:CH_2$ . ( $\beta$ -(4-  
tertiary-Butyl-phenoxo)- $\beta'$ -allyloxy-diethyl ether).  
Fly spray. 112, 1018P.
- 593-951-1023.  
Benzene, 1,2,3-trimethoxy-;  $C_6H_3(OCH_3)_3$ . (Pyro-  
gallol trimethyl ether).  
T screwworms; MT *Aphis rumicis*. 156, 1377.
- 593-1013-1021.  
Methane, triethoxy-;  $HC(OC_2H_5)_3$ . (Ethyl ortho-  
formate).  
HT rice weevil. 1180.
- 593-1024.  
Methane, trimethoxy-;  $CH(OCH_3)_3$ . (Methoxym-  
ethylal).  
NT red scale. 268.
- 594-625-952-1024.  
Pinocresinol, dimethyl-;  $(C_6H_5O)_2[C_6H_3(OCH_3)_2]_2$ .  
NT when used as synergist with pyrethrum against  
houseflies. 617.
- 594-841-951-1001-1014-1030.  
Ether, 2-(2-bromoallyloxyethoxy)-2'-(2-phenoxyethoxy)  
diethyl;  $C_6H_5OC_2H_4OC_2H_4OC_2H_4OCH_2C(Br)=CH_2$ . ( $\beta$ -(2-Phenoxy-ethoxy)- $\beta'$ -(2-bromoallyloxy-  
ethoxy)-diethyl ether).  
Fly spray. 112.
- 594-851-951-1001-1013-1080.  
Ether, 2-(3-chloro-2-methylallyloxy)-2'-(2-phenoxy-  
ethoxy)diethyl;  $C_6H_5OC_2H_4OC_2H_4OC_2H_4OCH_2C(CH_3)=CHCl$ . ( $\beta$ -(2-Phenoxy-ethoxy)- $\beta'$ -(3-chloro-2-me-  
thylallyloxy)-diethyl ether).  
Fly spray. 112, 1019P.
- 594-851-951-1014.  
Ether, 2-(2-chloroethoxy-2-ethoxy) 2'-phenoxy dieth-  
yl;  $C_6H_5OC_2H_4OC_2H_4OC_2H_4OC_2H_4Cl$ . (Ethane, 1-(2-  
chloroethoxy) 2-(2-phenoxyethoxy)-ethoxy-;  $\beta$ -(2-  
phenoxyethoxy)- $\beta'$ -(2-chloro-ethoxy)-diethyl ether).  
Fly spray. 112, 207P.
- 594-851-975-1015-1027.  
Ether, aryl chloroalkyl, CU;  $RO(CH_2CH_2O)_nCH_2Cl$ .  
The above formula wherein R represents an  
aromatic radical, and n is one of the integers 2 and  
3. The principal toxic ingredient in the formula is  
an aryloxyalkyl ether chloride. 207P.

594-852-951-1014.

Ether, 2-(2-chloroethoxy-2-ethoxy) 2'-(p-chlorophenoxy) diethyl;  $\text{ClC}_6\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2[2-(2-(p-chlorophenoxy)-ethoxy)ethoxy]-;  $\beta$ -(2-para-chlorophenoxy-ethoxy)- $\beta'$ -(2-chloro-ethoxy)-diethyl ether).

Fly spray. 112, 207P.

594-854-951-1014.

Ether, 2-(2-chloroethoxy-2-ethoxy) 2'-(2,4,6-trichlorophenoxy) diethyl;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{Cl}$ . (Ethane, 1-(2-chloroethoxy)-2[2-(2-(2,4,6-trichlorophenoxy)-ethoxy)-ethoxy]-;  $\beta$ -(2-sym-trichlorophenoxy-ethoxy)- $\beta'$ -(2-chloro-ethoxy) diethyl ether).

Fly spray. 112, 207P.

594-871-951-1014.

Ether, 2-(2-iodoethoxy-2-ethoxy) 2'-phenoxy diethyl;  $\text{C}_6\text{H}_5\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{OC}_2\text{H}_4\text{I}$ . (Ethane, 1-[2-(2-iodoethoxy)ethoxy]-2-(2-phenoxyethoxy)-;  $\beta$ -(2-phenoxy-ethoxy) -  $\beta'$ -(2-iodoethoxy) - diethyl ether. 110, 123P.

594-871-975-1027.

Ether, aryloxyiododialkyl;  $\text{R}(\text{OC}_n\text{H}_{2n})_2\text{I}$ . (Aryloxy-polyalkylene ether iodide).

T houseflies. 110, 112, 122P.

594-881-975-1027.

Ether, aryloxyalkyl halo-alkenyl;  $\text{RO}(\text{C}_2\text{H}_4\text{X})_m\text{C}_n\text{H}_{2n+1}\text{Y}$ . Compounds having the above formula wherein R represents an aromatic radical, Y is chlorine or bromine, m is an integer not greater than 4, n is an integer from 3 to 6, s is an integer from 2 to 6, and the halogen of the haloalkenyl radical is attached to an unsaturated carbon atom.

Fly spray. 112, 1019P.

594-887-975-1027.

Ethers,  $\text{RO}(\text{C}_n\text{H}_{2n}\text{O})_m\text{C}_n\text{H}_{2n+1}\text{X}$ . Unsaturated ether compounds having the above formula wherein R represents an aromatic radical, X represents chlorine, bromine or hydrogen, m is an integer not greater than 4, and n is an integer not greater than 6. These compounds are effective insecticides and may also be employed to fortify pyrethrum or rotenone containing sprays to obtain increased kills on flies and related insects. 113, 1017P.

594-975-1027

Ethers, alkenyl aryloxyalkyl;  $\text{RO}(\text{C}_n\text{H}_{2n}\text{O})_m\text{C}_n\text{H}_{2n+1}\text{R}$ . The above formula wherein R represents an aromatic radical, m is an integer not greater than 4, and n is an integer from 2 to 6.

Fly spray. 112, 1018P.

595-952-1022.

Benzoyl peroxide;  $(\text{C}_6\text{H}_5\text{CO})_2\text{O}_2$ . (Dibenzoyl peroxide).

NT corn borer. 1120.

620.

6-Oxabicyclo[3.1.0] hexane;  $\text{C}_5\text{H}_8\text{O}$ . (Cyclopentene oxide). 280P.

620-796-950.

Coumarin, 2-thiono-;  $\text{S}:(\text{C}_9\text{H}_6\text{O})$ . (2-Thiocoumarin). 98% T mosquito larvae but loses toxicity rapidly; T *Cochliomyia americana* larvae. 487, 636, 637, 944, 1178, 1291, 1319, 1327, 1432.

620-796-950.

Xanthione;  $\text{S}:(\text{C}_{12}\text{H}_{10}\text{O})$ .

MT greenhouse red spider at 2% and 33% T *Lucilia sericata* larvae; NT southern army worm. 723, 1481.

620-950.

4,9,9'-Bixanthene;  $\text{C}_{26}\text{H}_{18}\text{O}_2$ .

MT codling moth larvae; NT mosquito larvae. 487, 1291.

620-950.

Xanthene;  $\text{C}_{15}\text{H}_{10}\text{O}$ . (Dibenzo-1,4-pyran; diphenylmethane oxide; o,o'-methylenebiphenyl ether).

100% T *Culex quinquefasciatus* and 83% T codling moth larvae. 157, 487, 488, 1291, 1321P.

620-961-1003-1031.

Cineole;  $\text{C}_{10}\text{H}_{18}\text{O}$ . (Eucalyptol; 1,8-epoxy-p-methane).

80% T wireworms at 450.5 mg./l. and T houseflies; NT as attractant for oriental peach moth. 506, 846, 1276.

621.

p-Dioxane;  $\text{C}_6\text{H}_{10}\text{O}$ . (1,4-Dioxane; diethylene diox-

ide; glycol ethylene ether).

T codling moth; NT red scale. 268, 557.

621-852.

p-Dioxane, 2,3-dichloro-;  $(\text{C}_4\text{H}_5\text{O}_2)\text{Cl}_2$ . 1299P.

621-1003-1021.

Ascaridole;  $\text{CH}_3(\text{C}_6\text{H}_4\text{O}_2)\text{CH}(\text{CH}_3)_2$ .

Fly screwworms at 0.10-0.17%. 156.

622.

s-Trioxane;  $(\text{CH}_2\text{O})_3$ . (Trioxymethylene; polyoxymethylene; paraformaldehyde; metaformaldehyde).

T *Aphis rumicis*, parasites harmful to vines, and as mothproofing agent. 182P, 184P, 1153, 1176.

622-851-1023.

Paraldehyde, chloro-, CU;  $(\text{CH}_3)_2(\text{C}_2\text{H}_5\text{O})\text{CH}_2\text{Cl}$  1337P.

622-1023.

Paraldehyde;  $(\text{CH}_3)_2(\text{C}_2\text{H}_5\text{O})_3$ . (Elaldehyde).

ST *Aphis rumicis*; NT *Tineola bisellialis* and *Attagenus piceus*. 730, 1152, 1176.

625.

Furan;  $\text{C}_4\text{H}_6\text{O}$ .

NT *Chrysomphalus swartii*. 268.

625-626-950.

Asarinin;  $(\text{C}_6\text{H}_5\text{O}_2)(\text{C}_7\text{H}_5\text{O}_2)_2$ .

HT when used as a synergist with pyrethrum against houseflies. 617.

625-626-950.

Sesamin;  $(\text{C}_6\text{H}_5\text{O}_2)(\text{C}_7\text{H}_5\text{O}_2)_2$ .

HT when used as synergist with pyrethrum against houseflies. 617.

625-626-950.

Isosessamin;  $(\text{C}_6\text{H}_5\text{O}_2)(\text{C}_7\text{H}_5\text{O}_2)_2$ . (Epimer of sesamin).

HT when used as synergist with pyrethrum against houseflies. 617.

625-671-950.

Dibenzofuran, 2-amino-;  $(\text{C}_{12}\text{H}_7\text{O})\text{NH}_2$ . (2-Aminodiphenylene oxide).

48% T mosquito larvae. 487, 488.

625-671-950.

Dibenzofuran, 3-amino-;  $(\text{C}_{12}\text{H}_7\text{O})\text{NH}_2$ .

MT as mothproofing agent. 239.

625-671-950-961.

Dibenzofuran, 7-amino-1,2,3,4-tetrahydro-;  $(\text{C}_{12}\text{H}_{11}\text{O})\text{NH}_2$ .

80% T mosquito larvae. 487.

625-681-961-1021.

Cyclohexylamine, N-tetrahydrofurfuryl-;  $(\text{C}_6\text{H}_9\text{O})\text{CH}_2\text{NHC}_4\text{H}_7$ .

NT *Myzus persicae* and *Tetranychus telarius*. 772.

625-682-730-1021.

Furan, 3-methyl-2,5-bis-(2-pyridylamino)-;  $(\text{C}_6\text{H}_4\text{N})\text{NH}(\text{C}_2\text{H}_5\text{O})(\text{CH}_2)\text{NHC}_4\text{H}_4\text{N}$ . (N,N'-Di-2-pyridyl- $\alpha,\alpha'$ -diamino-2-methylfuran).

NT mosquito larvae. 487.

625-691-1023.

Furamide;  $(\text{C}_4\text{H}_5\text{O})\text{CH}(\text{N}:\text{CHC}_2\text{H}_5\text{O})_2$ . (Furfuramide; hydramide furfural; trifurallamine; hydrofuramine).

NT *Bombyx mori* larvae. 559.

625-701-1011.

Furonitrile;  $(\text{C}_6\text{H}_5\text{O})\text{CH}_2\text{CN}$ .

NT red scale. 268.

625-796-950.

Phthalide, thio-;  $\text{S}:(\text{C}_8\text{H}_6\text{O})$ . (Thiophthalide). 38P, 1432.

625-842-912-1021.

Fluorene, 2,7-dibromo-9-furfurylidene-;  $\text{Br}_2(\text{C}_{12}\text{H}_8):\text{CH}(\text{C}_4\text{H}_5\text{O})$ . (2,7-Dibromo-9-furfurylfluorene).

NT as mothproofing agent. 239.

625-851-950.

Dibenzofuran, 2-chloro-;  $(\text{C}_{12}\text{H}_7\text{O})\text{Cl}$ . (2-Chlorodiphenylene oxide).

50% T mosquito larvae. 487, 488.

625-912-1021.

Fluorene, 9-furfurylidene-;  $(\text{C}_{12}\text{H}_8):\text{CH}(\text{C}_4\text{H}_5\text{O})$ . (9-Furfurylfluorene).

T *Cochliomyia americana* C. and P. at 0.10 m.l.c. 944.

625-924.

$\beta,\epsilon$ -Dinaphthofuran;  $\text{C}_{20}\text{H}_{16}\text{O}$ .

90% T codling moth larvae; NT mosquito larvae. 487, 1291.

625-950.

Dibenzofuran;  $\text{C}_{12}\text{H}_8\text{O}$ . (Diphenylene oxide).

- T roaches, screwworms, and 80% T mosquito larvae. 487, 488, 586, 1080.
- 636-851-1003.
- 1,3-Dioxolane, 2-chloromethyl-2-methyl-;  $\text{CH}_3(\text{C}_2\text{H}_4\text{O})\text{CH}_2\text{Cl}$ . (Monochloroacetone-glycolketal).
- T wheat weevil. 1180P.
- 636-950-1003-1030.
- Bafrole;  $(\text{C}_7\text{H}_6\text{O}_2)\text{CH}_2\text{CH}:\text{CH}_2$ . (3,4-Methylendioxyallylbensene).
- T *Aphis rumicis*, houseflies, and as attractant for oriental peach moth; NT as synergist with pyrethrum against houseflies. 508, 617, 1152, 1276, 1428A.
- 636-950-1003-1030.
- Isobafrole;  $(\text{C}_7\text{H}_6\text{O}_2)\text{CH}:\text{CHCH}_3$ . (3,4-Methylendioxy-1-propenylbensene).
- T houseflies and 26% T wireworms at 558.5 mg./l. 846, 1376.
- 632.
- Ethylene oxide;  $\text{C}_2\text{H}_4\text{O}$ .
- T confused flour beetle red scale, rice weevil, and several other insects. 13, 158, 268, 1180, 1183P.
- 632-951-1021.
- Epichlorohydrin;  $\text{C}_2\text{H}_5\text{OCl}$ . ( $\alpha$ -Epichlorohydrin; 1-chloro-2,3-epoxypropane;  $\gamma$ -chloropropylene oxide; (chloromethyl) oxirane).
- 100% T rice weevil; T wireworms and codling moth larvae; NT *Chrydomphalus aurantii*. 268, 846, 1180, 1291.
- 632-961.
- Cyclohexane, 1,2-epoxy;  $\text{C}_6\text{H}_{10}\text{O}$ . (Cyclohexene oxide).
- T common clothes moth larvae, granary weevil, confused flour beetle, aphid or plant lice, cockroaches, and bedbugs. 280P, 853P.
- 632-961-1001.
- Cyclohexane, 1-butyl-1,2-epoxy-;  $(\text{C}_6\text{H}_9\text{O})\text{C}_4\text{H}_9$ . (1-Butyl-1-cyclohexene oxide). 280P.
- 632-961-1003.
- Cyclohexane, 1,2-epoxy-1-propyl-;  $(\text{C}_6\text{H}_9\text{O})\text{C}_3\text{H}_7$ . (1-Propyl-1-cyclohexene oxide). 280P.
- 632-961-1021.
- Cyclohexane, 1,2-epoxy-1-methyl-;  $(\text{C}_6\text{H}_9\text{O})\text{CH}_3$ . (1-Methyl-1-cyclohexene oxide). 280P.
- 632-961-1021.
- Cyclohexane, 1,2-epoxy-4-methyl-;  $(\text{C}_6\text{H}_9\text{O})\text{CH}_3$ . (4-Methyl-1-cyclohexene oxide). 280P.
- 632-961-1022.
- Cyclohexane, 1,4-dimethyl-1,2-epoxy-;  $(\text{C}_6\text{H}_9\text{O})(\text{C}_2\text{H}_5)_2$ . (1,4-Dimethyl-1-cyclohexene oxide). 280P.
- 632-1021.
- Propylene oxide;  $(\text{C}_3\text{H}_5\text{O})\text{CH}_2$ . (1,2-Epoxypropane; methylloxirane).
- 100% T rice weevil and *Pseudococcus adonum*; NT red scale. 268, 850, 1180.
- 650-672-953-1291.
- Bismark brown;  $\text{C}_6\text{H}_4(\text{N}:\text{NNHC}_6\text{H}_4\text{NH}_2)_2\text{HCl}$ . (Mainly hydrochloride of benzene-m-diazo-bis-m-phenylene diamine).
- NT codling moth. 915.
- 650-851-952-1021.
- Triasene, 3-benzyl-1-p-chlorophenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{NHN}:\text{NC}_6\text{H}_4\text{Cl}$ . (p-Chlorophenyldiasobenzylamine). 341P.
- 650-854-952.
- Triasene, 1,3-bis(2,5-dichlorophenyl)-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{N}:\text{N}:\text{NHC}_6\text{H}_3\text{Cl}_2$ .
- NT mosquito larvae. 487.
- 650-952.
- Triasene, 1,3-diphenyl-;  $\text{C}_6\text{H}_5\text{N}:\text{NNHC}_6\text{H}_5$ . (Diasoaminobenzene; diasoaminobenzol; diasamidobenzene; diasobenzeneanilide; benzeneazoanilide; diasamidobenzol).
- HT screwworms, codling moth, and HT greenhouse red spider at 1%; T silkworm, 70% T mosquito larvae, and T as mothproofing agent. 156, 328P, 330P, 340P, 341P, 361P, 487, 559, 874P, 915, 1176, 1481.
- 657-730-950.
- Quinoline, 1-hydrazino-;  $\text{C}_8\text{H}_7\text{NNHNH}_2$ . (Quinolyhydrazine).
- NT *Bombyx mori* larvae. 559.
- 657-781-952-1022.
- Hydrasobenzene, 2,2'-bis(methylthio)-;  $\text{CH}_3\text{SC}_6\text{H}_4\text{NHNHC}_6\text{H}_4\text{SCH}_3$ . (2,2'-Hydrasobis(thioanisole)).
- NT mosquito larvae. 487.
- 657-841-952.
- Hydrasobenzene, p-bromo-;  $\text{BrC}_6\text{H}_4\text{NHNHC}_6\text{H}_5$ .
- 99.1% T corn borer larvae; T *Culex quinquefasciatus* and young screwworm larvae. 187, 944, 1120.
- 657-852-952.
- Hydrasobenzene, 2,2'-dichloro-;  $(\text{HNC}_6\text{H}_4\text{Cl})_2$ .
- HT greenhouse red spider at 4%. 1481.
- 657-871-952.
- Hydrasobenzene, p-iodo-;  $\text{C}_6\text{H}_5\text{NHNHC}_6\text{H}_4\text{I}$ .
- T *Cochliomyia americana*. 110, 944, 1431P.
- 657-924-1312.
- Hydrazine, naphthyl-, hydrofluoride;  $\text{C}_{10}\text{H}_7\text{NHNH}_2\text{HF}$ .
- NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 657-951.
- Hydrazine, phenyl-;  $\text{C}_6\text{H}_5\text{NHNH}_2$ .
- T houseflies. 156, 1276.
- 657-951-1021.
- Hydrazine, 1-methyl-1-phenyl-;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_3)\text{NH}_2$ . ( $\alpha$ -Methyl  $\alpha$ -Phenyl hydrazine).
- NT *Bombyx mori* larvae. 559.
- 657-951-1021.
- Hydrazine, m-tolyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHNH}_2$ .
- HT screwworms at 0.10-0.17%. 156, 559.
- 657-951-1021.
- Hydrazine, o-tolyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHNH}_2$ .
- T screwworms at m.l.c. of 0.33-0.67%. 156.
- 657-951-1021.
- Hydrazine, p-tolyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHNH}_2$ .
- ST screwworms at m.l.c. of 0.67%. 156.
- 657-951-1291.
- Hydrazine, phenyl-, hydrochloride;  $\text{C}_6\text{H}_5\text{NHNH}_2\text{HCl}$ .
- T screwworms at m.l.c. of 0.10-0.17%. 156.
- 657-952.
- Hydrazine, 1,1-diphenyl-;  $\text{H}_2\text{NN}(\text{C}_6\text{H}_5)_2$ .
- NT southern army worm at 4%. 1481.
- 657-952.
- Hydrasobenzene;  $\text{C}_6\text{H}_5\text{NHNHC}_6\text{H}_5$ . (1,2-Diphenylhydrazine; sym-di-phenylhydrazine).
- HT greenhouse red spider at 2%; T southern army worm, cross-striped cabbage worm, melon worm, roaches, codling moth larvae, and T screwworms at 0.05%. 156, 586, 1312, 1481.
- 657-952-1021.
- Hydrasobenzene, p-methyl-;  $\text{C}_6\text{H}_5\text{NHNHC}_6\text{H}_4\text{CH}_3$ .
- T *Cochliomyia americana* C. and P. at m.l.c. of 10%. 944.
- 657-954.
- Hydrasobenzene, p,p'-diphenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{NHNHC}_6\text{H}_5$ . (p,p'-Hydrasobisbiphenyl).
- 16.4% T corn borer. 1120.
- 657-1312.
- Hydrazine hydrofluoride;  $\text{N}_2\text{H}_4\text{HF}$ .
- NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 657-1389.
- Hydrazine sulfate;  $\text{N}_2\text{H}_4\text{H}_2\text{SO}_4$ .
- NT codling moth and clothes moth. 739, 915, 1176.
- 659-912-951.
- 9-Fluorenone phenylhydrazone;  $(\text{C}_{13}\text{H}_9)_2\text{NNHC}_6\text{H}_5$ .
- NT *Cochliomyia americana* C. and P. 944.
- 659-951-1003.
- Acetone phenylhydrazone;  $(\text{CH}_3)_2\text{C}:\text{NNHC}_6\text{H}_5$ . (2-Propanone phenylhydrazone).
- T screwworms at m.l.c. of 0.10-0.17%. 156.
- 659-952-1021.
- Benzaldehyde phenylhydrazone;  $\text{C}_6\text{H}_5\text{CH}:\text{NNHC}_6\text{H}_5$ . (Benzylidene phenylhydrazine; benzalphenylhydrazine).
- T as mothproofing agent and T screwworms at m.l.c. of 0.33-0.67%. 156, 328P, 1176.
- 659-952-1022.
- Benzaldehyde, tolylhydrazone, CU;  $\text{C}_6\text{H}_5\text{CH}:\text{NNHC}_6\text{H}_4\text{CH}_3$ . (Benzaldehydethenylhydrazone; benzylidene-phenyl-methylhydrazone).
- T as mothproofing agent. 873P, 1176.
- 665-671-841-924-951.
- 2-Naphthylamine, 1-(p-bromophenylazo)-;  $\text{BrC}_6\text{H}_4\text{NNC}_{10}\text{H}_7\text{NH}_2$ .
- 44.3% T mosquito larvae. 487, 488.
- 665-671-924.
- 2-Naphthylamine, 1-(1-naphthylazo)-;  $\text{C}_{10}\text{H}_7\text{N}:\text{NC}_{10}\text{H}_7\text{NH}_2$ . 1434P.

- 665-671-924-951.  
2-Naphthylamine, 1-phenylazo-;  $C_6H_5N:NC_{10}H_7NH_2$ .  
46% T mosquito larvae and 9.6% T corn borer.  
487, 488, 1190, 1434P.
- 665-671-924-951.  
Aniline, *p*-(1-naphthylazo)-;  $NH_2C_6H_4N:NC_{10}H_7$ .  
1434P.
- 665-671-924-951.  
Naphthylamines, phenylazo-, CU;  $R^1N:NR^2(NH_2)$ .  
The above formula where  $R^1$  and  $R^2$  denote interchangeable aryl nuclei,  $R^1$  being a single benzene nucleus and  $R^2$  a naphthyl nucleus. 1434P.
- 665-671-924-951-1021.  
1-Naphthylamine, 4-(*m*-tolylazo)-;  $CH_3C_6H_4N:NC_{10}H_7NH_2$ . 1439P.
- 665-671-924-951-1021.  
1-Naphthylamine, 4-(*o*-tolylazo)-;  $CH_3C_6H_4N:NC_{10}H_7NH_2$ . 1439P.
- 665-671-924-951-1021.  
1-Naphthylamine, 4-(*p*-tolylazo)-;  $CH_3C_6H_4N:NC_{10}H_7NH_2$ . 1439P.
- 665-671-924-951-1021.  
2-Naphthylamine, 1-(*m*-tolylazo)-;  $CH_3C_6H_4N:NC_{10}H_7NH_2$ . 1439P.
- 665-671-924-951-1021.  
2-Naphthylamine, 1-(*o*-tolylazo)-;  $CH_3C_6H_4N:NC_{10}H_7NH_2$ .  
T mosquito larvae and 20.6% T corn borer. 488, 1120, 1439P.
- 665-671-924-951-1021.  
2-Naphthylamine, 1-(*p*-tolylazo)-;  $CH_3C_6H_4N:NC_{10}H_7NH_2$ . 1439P.
- 665-671-952.  
Aniline, *p*-phenylazo-;  $C_6H_5N:NC_6H_4NH_2$  (*p*-Aminobenzenesulfonamide; 4-benzenesulfonamide).  
T mosquito larvae, Colorado potato beetle, cross-striped cabbage worm, Hawaiian beet webworm, and melonworm; NT screwworms and codling moth. 156, 488, 915, 1373.
- 665-671-952-1021.  
Aniline, *p*-(*m*-tolylazo)-;  $NH_2C_6H_4N:NC_6H_4CH_3$ . 1439P.
- 665-671-952-1031.  
Aniline, *p*-(*o*-tolylazo)-;  $NH_2C_6H_4N:NC_6H_4CH_3$ . 1439P.
- 665-671-952-1021.  
Aniline, *p*-(*p*-tolylazo)-;  $NH_2C_6H_4N:NC_6H_4CH_3$ . 1439P.
- 665-671-952-1021.  
*m*-Toluidine, 4-phenylazo-;  $C_6H_5N:NC_6H_4(NH_2)CH_3$ . 1439P.
- 665-671-952-1021.  
*o*-Toluidine, 4-phenylazo-;  $C_6H_5N:NC_6H_4(NH_2)CH_3$ . 1439P.
- 665-671-952-1022.  
*o*-Toluidine, 4-(*o*-tolylazo)-;  $CH_3C_6H_4N:NC_6H_4CH_3$  ( $CH_3NH_2$ ). (4'-Amino-2,3'-dimethylazobenzene).  
50% T mosquito larvae; ST greenhouse red spider at 2%; NT screwworms and NT southern army worm at 4%. 156, 487, 1439P, 1481.
- 665-671-952-1291.  
Aniline, *p*-phenylazo-, hydrochloride;  $C_6H_5N:NC_6H_4NH_2 \cdot HCl$ ? (*p*-Aminobenzenesulfonamide hydrochloride).  
T melonworm; NT termites, American cockroach, rice weevil, cowpea weevil, and cabbage aphid. 1100.
- 665-672-952-1022.  
*p*-Toluidine, 4,4'-azodi-;  $CH_3C_6H_4(NH_2)N:NC_6H_4CH_3$  ( $NH_2CH_3$ ). (2-Amino-5-asotoluene).  
64% T mosquito larvae; NT screwworms. 156, 487.
- 665-672-952-1022-1291.  
*o*-Toluidine, 4,4'-azodi-, hydrochloride;  $(CH_3C_6H_4(NH_2)N)_2 \cdot HCl$ . (2-Amino-5-asotoluene hydrochloride).  
NT screwworms. 156.
- 665-672-952-1291.  
Chrysoidine;  $C_6H_5N:NC_6H_4(NH_2)_2 \cdot HCl$ . (Diamino-azobenzene-hydrochloride).  
NT clothes moth, black carpet beetle, and codling moth. 915, 974, 1176.
- 665-681-953.  
Diphenylamine, *p*-phenylazo-;  $C_6H_5N:NC_6H_4NHC_6H_5$ . (Benzene azo diphenylamine).  
HT screwworms and mosquito larvae; 40% T *Bombyx mori* larvae; ST greenhouse red spider at 2%; NT southern army worm at 4%. 156, 487, 488, 559, 1481.
- 665-691-924-951-1022.  
Aniline, *N,N*-dimethyl-*p*-(1-naphthylazo)-;  $C_{10}H_7N:NC_6H_4N(CH_3)_2$ . (4-Dimethylaminobenzenesulfonamide-1-azo-1-naphthalene; 4- $\alpha$ -naphthalenesulfonamide-*N,N*-dimethyl-aniline; *p*-(1-naphthylazo) dimethylaniline).  
MT greenhouse red spider at 2%; NT silkworm, screwworms, mosquito larvae, and NT southern army worm at 4%. 156, 487, 561, 1481.
- 665-691-924-951-1022.  
Aniline, *N,N*-dimethyl-*p*-(2-naphthylazo)-;  $C_{10}H_7N:NC_6H_4N(CH_3)_2$ . (4-Dimethylaminobenzenesulfonamide-2-azo-2-naphthalene; 4- $\beta$ -naphthalenesulfonamide-*N,N*-dimethyl-aniline; *p*-(2-naphthylazo) dimethylaniline).  
ST greenhouse red spider at 2%; NT *Bombyx mori*, screwworms, mosquito larvae, and NT southern army worm at 4%. 156, 487, 561, 1481.
- 665-691-952-1022.  
Aniline, *N,N*-dimethyl-*p*-phenylazo-;  $C_6H_5N:NC_6H_4N(CH_3)_2$ . (*p*-Phenylazodimethylaniline; *p*-dimethylaminobenzenesulfonamide; *N,N*-dimethyl-*p*-phenylazoaniline).  
T screwworms and 75% T mosquito larvae; ST southern army worm at 4% and ST greenhouse red spider at 2%; NT *Bombyx mori* larvae. 156, 487, 488, 559, 561, 1481.
- 665-691-952-1022-1291.  
Aniline, *N,N*-dimethyl-*p*-phenylazo-, hydrochloride;  $C_6H_5N:NC_6H_4N(CH_3)_2 \cdot HCl$ . (*p*-Dimethylaminobenzenesulfonamide hydrochloride).  
T screwworms at 0.17-0.33%. 156.
- 665-691-953.  
Triasene, 1,3,3-triphenyl-;  $C_6H_5N:NN(C_6H_5)_3$ . (Benzene azo diphenylamine; *N*-phenyldiazaminobenzenesulfonamide?).  
ST *Bombyx mori*. 559.
- 665-730-951.  
Piperidine, phenylazo-, CU;  $C_6H_5N:NC_6H_4NH$ . (Phenyldiazopiperidine). 341P.
- 665-730-951-1021.  
Piperidine, *o*-tolylazo-;  $CH_3C_6H_4N:NC_6H_4NH$ . (*o*-Methyl-phenyldiazopiperidine). 341P.
- 665-730-951-1023.  
*s*-Collidine, hexahydro-*N*-phenylazo-;  $C_6H_5N:NC_6H_4NH$  ( $CH_2$ ). (Phenyldiazohexahydrocollidine). 341P.
- 665-781-952.  
Anisole, thio-, 2,2'-azodi-;  $(CH_3SC_6H_4)_2$ . (2,2'-Azobis(thioanisole)).  
NT mosquito larvae. 487.
- 665-841-952.  
Azobenzene, *p*-bromo-;  $BrC_6H_4N:NC_6H_5$ .  
100% T European corn borer and T screwworms at 0.10-0.17%. 156, 1120.
- 665-871-952.  
Azobenzene, *p*-iodo-;  $C_6H_5N:NC_6H_4I$ .  
T European corn borer, culicine mosquito larvae, and screwworms. 110, 156, 488, 1120, 1123, 1440P.
- 665-881-975.  
Arylazo compounds, halogenated. 1440P.
- 665-951-1021.  
Azobenzene, *p*-methyl-;  $C_6H_5N:NC_6H_4CH_3$ .  
T *Cochliomyia americana* C. and P. at m.l.c. of .08%. 944.
- 665-952.  
Azobenzene;  $C_6H_5N:NC_6H_5$ .  
HT screwworms and HT greenhouse red spider at 1%; T codling moth and mosquito larvae; NT southern army worm at 4%. 156, 488, 915, 1481.
- 665-952-1022.  
*o,o'*-Asotoluene;  $CH_3C_6H_4N:NC_6H_4CH_3$ . (2,2'-Dimethyl azobenzene; *o,o'*-asotoluene).  
MT greenhouse red spider at 2%. 1481.
- 665-952-1022.  
*p,p'*-Asotoluene;  $CH_3C_6H_4N:NC_6H_4CH_3$ . (*p,p'*-Asotoluene).  
NT screwworms. 156.
- 665-952-1113.  
Azobenzene-4-arsonic acid;  $C_6H_5N:NC_6H_4OAs(OH)_2$ .  
NT codling moth and southern army worm at 4%. 1481.

- 665-954.  
Biphenyl, *p,p'*-asodi-;  $C_6H_5C_6H_4N:NC_6H_5C_6H_5$ .  
NT European corn borer and screwworms. 156, 1120.
- 665-975-1450.  
Diazonium salts;  $ArN_2X$ .  
T as mothproofing agent. 662P, 1175.
- 665-1045-1312.  
Diazonium compounds, fluorometallic-. (Hydrofluoric acids, metallo, diazonium salts of).  
T as mothproofing agent. 662P, 1175.
- 667-671-1023-1286.  
Biguanide, amino-, bicarbonate;  $H_2NNHC(:NH)-NHC(:NH)NH_2H_2CO_3$ ? (Aminobiguanidine bicarbonate).  
NT codling moth. 915.
- 667-1022-1045.  
Biguanide, substituted, condensation product. 1013P.
- 668-692-952-1025.  
Guanidine, 1,3-bis[*p*-(*N,N*-dimethylaniline)]-;  $[(C_6H_5)_2NC_6H_4NH]_2C:NH$ . (Di-*p*-dimethyl anilino guanidine).  
T as moth-repellent. 192P.
- 668-701-1022.  
Guanidine, 1-cyano-;  $NH_2C(:NH)NHCN$ . ( $\alpha$ -Cyano-guanidine; dicyan(o)diamide; param).  
70% T mosquito larvae and T *Ap/ls* rumicis. 487, 1152.
- 668-701-1022-1389.  
Guanidine, 1-cyano-, sulfate;  $H_2NC(:NH)NHCN \cdot H_2SO_4$ . (Guanidine,  $\alpha$ -cyano-, sulfate).  
NT codling moth larvae. 915, 1175.
- 668-730-953-1021.  
Guanidine, 1,3-diphenyl-2-pyridyl-;  $(C_6H_5NH)_2C:NC_5H_4N$ ? ( $\alpha,\gamma$ -Diphenyl- $\beta$ -2-pyridyl-guanidine).  
NT mosquito larvae. 487.
- 668-924-1021.  
Guanidine, 1,3-bis(1-naphthyl)-;  $HN:C(NHC_{10}H_7)_2$ . (Guanidine, di- $\alpha$ -naphthyl-).  
T as mothproofing agent. 192P, 1179.
- 668-952-1021.  
Guanidine, 1,1-diphenyl-;  $(C_6H_5)_2NC(:NH)NH_2$ . ( $\gamma$ -Diphenyl guanidine).  
T as moth-repellent. 192P.
- 668-952-1021.  
Guanidine, 1,2-diphenyl-;  $H_2NC(:NH)N(C_6H_5)_2$ . (Guanidine,  $\alpha$ -diphenyl-).  
T as mothproofing agent. 192P, 1179.
- 668-952-1021.  
Guanidine, 1,3-diphenyl-;  $HN:C(NHC_6H_5)_2$ . (Diphenyl guanidine; melaniline;  $\alpha$ ,  $\gamma$ -diphenyl guanidine).  
T screwworms, codling moth larvae, and as moth-repellent; NT *Bombyx mori* larvae and *Melanoptus m. mexicanus*. 156, 192P, 487, 559, 561, 606, 915, 1150, 1179, 1222P.
- 668-952-1021.  
Guanidine, diphenyl, CU, used with phenothiazine. (Diphenyl guanidine and thio-diphenylamine). 1222P.
- 668-952-1021-1291.  
Guanidine, diphenyl-, CU, chloride;  $CIN:C(NHC_6H_5)_2$ . (Diphenylcarbamine chloride; diphenylguanidine chloride; melaniline chloride?).  
T screwworms at 0.10-0.17%. 156.
- 668-952-1022.  
Guanidine, 1,3-diphenyl-1-methyl-;  $CH_3NHC(:NH)N(C_6H_5)_2$ . (Guanidine,  $\alpha$ -methyl- $\alpha$ ,  $\gamma$ -diphenyl-).  
T as mothproofing agent. 192P, 1179.
- 668-952-1023.  
Guanidine, di-*p*-toluino-?  $HN:C(NHC_6H_4CH_3)_2$ ? (Guanidine, di-*p*-methylanilino-).  
T as mothproofing agent. 192P, 1179.
- 668-952-1023.  
Guanidine, dibenzyl-, CU;  $HN:C(NHCH_2C_6H_5)_2$ .  
T as mothproofing agent. 192P, 1179.
- 668-952-1023.  
Guanidine, 1,3-di-*o*-tolyl-;  $(CH_3C_6H_4NH)_2C:NH$ . ( $\alpha,\gamma$ -Di-*o*-tolyl guanidine).  
62% T codling moth larvae; NT mosquito larvae and as mothproofing agent. 239, 487, 1291.
- 668-952-1023.  
Guanidine, di-*o*-tolyl-, CU;  $HN:C(NHC_6H_4CH_3)_2$ .  
T codling moth and as mothproofing agent. 192P, 915, 1179.
- 668-953-1023.  
Guanidine, di-*p*-tolyl-, CU;  $HN:C(NHC_6H_4CH_3)_2$ .  
T as mothproofing agent. 192P, 1179.
- 668-953-1023.  
Guanidine, 1,3-triphenyl-;  $(C_6H_5)_3NC(:NH)NHC_6H_5$ . ( $\alpha,\alpha,\gamma$ -Triphenylguanidine).  
61% T codling moth larvae and 53% T mosquito larvae. 487, 1291.
- 668-953-1021.  
Guanidine, 1,2,3-triphenyl-;  $(C_6H_5NH)_3C:NC_6H_5$ .  
HT codling moth and *Melanoptus m. mexicanus*; 10% T *Bombyx mori* larvae. 559, 915, 1150.
- 668-953-1021.  
Guanidine, 1,3-dicyclohexyl-;  $C_6H_{11}NHC(:NH)-NHC_6H_{11}$ .  
T moth larvae. 663P.
- 668-975-1021.  
Guanidine, 1,3-diaryl-;  $RNHC(:NH)NHR$ . 192P.
- 668-989-1021.  
Guanidine, 1-dodecyl-;  $C_{12}H_{25}NHC(:NH)NH_2$ .  
Fly spray. 107P, 112.
- 668-994-1021.  
Guanidine, 1,3-bis(2-octyl)-;  $(C_8H_{17}NH)_2C:NH$ . (*sym*-Di-2-octyl guanidine). 666P.
- 668-1021-1108-1136-1142-1405.  
Reinecke acid, guanidine salt;  $(NH_2)_3C:NH.Cr(NH_3)_3(SCN)_3$ . (Guanidine tetrathiocyanato diammino chromium; reineckate, guanidinium).  
100% T Mexican bean beetles at 1-100, 58% T codling moth larvae at 4 lbs./100 gal.; 70% T Mexican bean beetle and 40% T Colorado potato beetle used as dust. 606, 1432.
- 668-1021-1109-1308.  
Guanidine ammonium ferricyanide.  
T as moth-repellent. 50P.
- 668-1021-1286.  
Guanidine carbonate;  $HN:C(NH)_2CO_3$ .  
T codling moth larvae. 915.
- 668-1021-1309.  
Guanidine ferrocyanide complex. 845P.
- 668-1022.  
Guanidine, 1-methyl-?  $NH_2C(:NH)NHC_6H_5$ . ( $\alpha$ -Methyl- $\alpha$ -guanidine).  
T as moth-repellent. 192P.
- 668-1022-1389.  
Guanidine, methyl-, sulfate;  $CH_3NHC(:NH)NH_2 \cdot H_2SO_4$ .  
NT *Bombyx mori*. 559, 1432.
- 670-702-1012-1023.  
Cyanamide, bis(2-cyanoethyl)-;  $(CNCH_2CH_2)_2NCN$ . ( $\beta,\beta'$ -Dicyanodiethyl cyanamide). 670P.
- 670-781-1012-1021-1027.  
Cyanamide, alkyl disubstituted;  $RSCH_2CH_2N(CN) \cdot CH_3CH_2SR$ .  
R is a normal saturated aliphatic hydrocarbon radical. 663P, 667P.
- 670-924-1011.  
Cyanamide, ethyl-1-naphthyl-;  $C_{10}H_7(C_2H_5):NCN$ . 1190P.
- 670-951-999.  
Cyanamide, isoamyl phenyl-;  $(CH_3)_2(C_2H_5)_2N(C_6H_5)CN$ . 1190P.
- 670-951-1001-1022.  
Cyanamide, butyl(*o*-tolyl)-;  $CH_3C_6H_4(C_4H_9)NCN$ . 1190P.
- 670-951-1022.  
Cyanamide, dibenzyl-;  $(C_6H_5CH_2)_2NCN$ . 1006P.
- 670-962.  
Cyanamide, dicyclohexyl-;  $(C_6H_{11})_2NCN$ . 1191P.
- 670-962-1012.  
Cyanamide, bis-(2-ethylcyclohexyl)-;  $(C_6H_{10}C_2H_5)_2NCN$ . 1191P.
- 670-962-1022.  
Cyanamide, bis-(4-methylcyclohexyl)-;  $(C_6H_{10}CH_3)_2NCN$ . 1191P.
- 670-994-1021.  
Cyanamide, dioctyl-;  $(C_8H_{17})_2NCN$ . 995P, 1190P.
- 670-999-1011-1021.  
Cyanamide, amyl ethyl-;  $C_5H_{11}(C_2H_5)NCN$ . (Ethyl *n*-amyl cyanamide). 1192P.



- 670-1002-1021.  
Cyanamide, dibutyl-;  $\text{NCN}(\text{C}_4\text{H}_9)_2$ .  
T codling moth. 915.
- 670-1021.  
Cyanamide;  $\text{CNNH}_2$ .  
T codling moth. 915.
- 671-681-951-952.  
Diphenylamine, 2-amino-4-chloro-;  $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_4(\text{NH}_2)\text{Cl}$ .  
86% T mosquito larvae. 487.
- 671-681-951-1011-1313.  
Aniline, N-2-aminoethyl-, fluosilicate;  $[\text{C}_6\text{H}_5\text{NHCH}_2\text{CH}_2\text{NH}_2]_2\text{H}_2\text{SiF}_6$ . ( $\beta$ -Aminoethylaniline fluosilicate).  
T as mothproofing agent. 1179, 1225P, 1228P.
- 671-681-989-1011.  
Ethylene diamine, N-dodecyl-;  $\text{NH}_2\text{CH}_2\text{CH}_2\text{NHC}_{12}\text{H}_{25}$ .  
Repellent for Ambrosia beetles. 816P.
- 671-691-696-952-1025-1030-1291.  
Auramine;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{C}(\text{NH}_2)_2\text{C}_6\text{H}_4\text{N}(\text{Cl})_2$ .  
( $\text{CH}_3$ )<sub>2</sub>. (Auramine 0; auramine I, II, and concentrated; aureum; pylak tannin; pyoktannin).  
NT clothes moth and black carpet beetle larvae. 974, 1176.
- 671-691-951-1012.  
p-Phenylenediamine, N,N-diethyl-;  $(\text{C}_2\text{H}_5)_2\text{NC}_6\text{H}_4\text{NH}_2$ . (p-Aminodiethylaniline).  
NT *Chrysomphalus aurantii*. 268.
- 671-701-1003.  
Propionitrile,  $\alpha$ -amino-;  $\text{CH}_3\text{CHNH}_2\text{CN}$ . (Amino-propionitrile).  
T green apple aphids. 999P.
- 671-701-1003.  
Propionitrile,  $\beta$ -amino-;  $\text{H}_2\text{NCH}_2\text{CCN}$ ? (Methylene-aminocetonitrile). 238P.
- 671-701-1004.  
Isobutyronitrile,  $\alpha$ -amino-;  $(\text{CH}_3)_2\text{C}(\text{NH}_2)\text{CN}$ ?  
(Amino isobutyronitrile).  
HT green apple aphids; NT Colorado potato beetle and Mexican bean beetle. 606, 999P.
- 671-730.  
Pyridine, 2-amino-6-piperidyl-;  $\text{NH}_2(\text{C}_5\text{H}_4\text{N})(\text{C}_5\text{H}_8\text{NH})$ . 1483P.
- 671-730-950.  
Quinoline, 5-amino-;  $(\text{C}_5\text{H}_4\text{N})\text{NH}_2$ . (Ana amido-quinoline).  
NT *Pieris rapae*. 635.
- 671-732-950.  
Phenazine, 2-amino-;  $(\text{C}_{12}\text{H}_7\text{N}_3)\text{NH}_2$ .  
T codling moth larvae. 1433P.
- 671-781-924.  
1-Naphthylamine, phenylthio-,  $\text{CU}$ ;  $\text{C}_{10}\text{H}_7(\text{NH}_2)-\text{SC}_6\text{H}_5$ . (Thiophenyl  $\alpha$ -naphthylamine).  
20% T adult Mexican bean beetle. 606.
- 671-781-924.  
2-Naphthylamine, phenylthio-,  $\text{CU}$ ;  $\text{C}_{10}\text{H}_7(\text{NH}_2)-\text{SC}_6\text{H}_5$ . (Thiophenyl  $\beta$ -naphthylamine).  
20% T adult Mexican bean beetle. 606.
- 671-781-951-1022.  
Aniline, 2-methylthio-;  $\text{CH}_3\text{SC}_6\text{H}_4\text{NH}_2$ . (o-Amino-phenyl methyl sulphide).  
98% T codling moth larvae. 1291.
- 671-791-851-951-1291.  
Benzenethiol, 2-amino-4-chloro-, hydrochloride;  $\text{ClC}_6\text{H}_4(\text{SH})\text{NH}_2\text{HCl}$ . (2-Amino-4-chlorothiophenol hydrochloride).  
82% T mosquito larvae. 172.
- 671-791-951-1291.  
Benzenethiol, o-amino-, hydrochloride;  $\text{HSC}_6\text{H}_4\text{NH}_2\text{HCl}$ . (Phenyl mercaptan, o-amino-, hydrochloride; o-aminothiophenol hydrochloride).  
82% T culicine mosquito larvae at 1-10,000. 172, 1178.
- 671-791-951-1291.  
Benzenethiol, p-amino-, hydrochloride;  $\text{HSC}_6\text{H}_4\text{NH}_2\text{HCl}$ . (Phenyl mercaptan, p-amino-, hydrochloride; p-aminothiophenol hydrochloride).  
NT culicine mosquito larvae at 1-40,000. 172, 1178.
- 671-841-951.  
Aniline, p-bromo-;  $\text{BrC}_6\text{H}_4\text{NH}_2$ . (1-Amino-4-bromobenzene).  
T screwworms at 0.17-0.33%. 156.
- 671-841-951-1021.  
o-Toluidine, 4-bromo;  $\text{BrC}_6\text{H}_4(\text{CH}_3)\text{NH}_2$ .  
NT European corn borer. 1122.
- 671-843-951.  
Aniline, 2,4,6-tribromo-;  $\text{Br}_3\text{C}_6\text{H}_3\text{NH}_2$ .  
T Colorado potato beetle, Mexican bean beetle, codling moth larvae, and 40% T mosquito larvae. 487, 606, 1291.
- 671-851-951.  
Aniline, m-chloro-;  $\text{ClC}_6\text{H}_4\text{NH}_2$ . (3-Chlorophenylamine).  
98% T codling moth larvae and T screwworms at 0.33-0.67%. 156, 1291.
- 671-851-951.  
Aniline, o-chloro-;  $\text{ClC}_6\text{H}_4\text{NH}_2$ . (2-Chlorophenylamine).  
96% T codling moth larvae and T screwworms at 0.17-0.33%; NT *Pieris rapae*. 156, 635, 1291, 1382.
- 671-851-951.  
Aniline, p-chloro-;  $\text{ClC}_6\text{H}_4\text{NH}_2$ . (4-Chlorophenylamine).  
T Colorado potato beetle, screwworms, Agrotis, Mexican bean beetle, and 98% T codling moth larvae. 156, 606, 1291, 1382.
- 671-851-951-1021.  
o-Toluidine, 4-chloro-;  $\text{NH}_2\text{C}_6\text{H}_4(\text{Cl})\text{CH}_3$ .  
97% T codling moth larvae. 1291.
- 671-852-951.  
Aniline, 2,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NH}_2$ .  
T Japanese beetle and T screwworms at 0.33-0.67%. 156, 494.
- 671-853-951.  
Aniline, 2,5-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NH}_2$ .  
T lice, cockroaches, codling moth larvae, and 54% T mosquito larvae; ST greenhouse red spider and ST screwworms at 0.67%. 156, 487, 492, 915, 930, 1291, 1481.
- 671-853-951.  
Aniline, trichloro-,  $\text{CU}$ ;  $\text{Cl}_3\text{C}_6\text{H}_2\text{NH}_2$ .  
T Japanese beetle. 494.
- 671-861-951.  
Aniline, p-fluoro-;  $\text{FC}_6\text{H}_4\text{NH}_2$ . (1-Amino-4-fluorobenzene).  
90% T codling moth larvae; NT red scale. 268, 1291.
- 671-871-951.  
Aniline, p-iodo-;  $\text{IC}_6\text{H}_4\text{NH}_2$ .  
96% T codling moth larvae; NT as mothproofing agent. 110, 239, 946, 1291.
- 671-912.  
2-Fluoreneamine;  $(\text{C}_{12}\text{H}_9)\text{NH}_2$ . (2-Fluorylamine).  
MT as mothproofing agent. 239.
- 671-924.  
1-Naphthylamine;  $\text{C}_{10}\text{H}_7\text{NH}_2$ . ( $\alpha$ -Naphthylamine).  
T houseflies, screwworms, codling moth, and 98% T mosquito larvae; NT *Melanoplus m. mexicanus*. 156, 487, 604P, 915, 1150, 1276, 1407.
- 671-924.  
2-Naphthylamine;  $\text{C}_{10}\text{H}_7\text{NH}_2$ . ( $\beta$ -Naphthylamine).  
T *Aphis rumicis*, houseflies, and mosquito larvae; NT codling moth, clothes moth, and *Melanoplus m. mexicanus*. 487, 604P, 739, 915, 1150, 1176, 1276.
- 671-924-1291.  
1-Naphthylamine hydrochloride;  $\text{C}_{10}\text{H}_7\text{NH}_2\text{HCl}$ . ( $\alpha$ -Naphthylamine hydrochloride).  
T Japanese beetle. 494.
- 671-924-1291.  
2-Naphthylamine hydrochloride;  $\text{C}_{10}\text{H}_7\text{NH}_2\text{HCl}$ . ( $\beta$ -Naphthylamine hydrochloride).  
T as soil insecticide. 494.
- 671-924-1291.  
2-Naphthylamine tetrahydro-, hydrochloride;  $\text{C}_{12}\text{H}_{11}\text{NH}_2\text{HCl}$ . (Tetrahydro- $\beta$ -naphthylamine hydrochloride).  
T *Aphis rumicis*. 1152.
- 671-924-1312.  
1-Naphthylamine hydrofluoride;  $\text{C}_{10}\text{H}_7\text{NH}_2\text{HF}$ . ( $\alpha$ -Naphthylamine hydrofluoride).  
NT *Timeola biselliella* and *Attageus picus*. 739, 1176.
- 671-930-1023.  
Camphylamine;  $\text{C}_{10}\text{H}_7\text{NH}_2$ .  
T *Aphis rumicis*. 1152.
- 671-951.  
Aniline;  $\text{C}_6\text{H}_5\text{NH}_2$ . (Phenylamine, aminobenzene).



- T. Lucilia sericata* larvae, screwworms, and *Aphis rumicis*; ST red scale, greenhouse red spider, and payllae; NT clothes moth. 121P, 156, 268, 723, 985, 1182, 1176.
- 671-951-961-1021.  
Benzylamine,  $\alpha$ -cyclohexyl-;  $C_6H_5(C_6H_{11})CHNH_2$ . (Phenylcyclohexylmethylamine). 366P.
- 671-951-1003.  
Cumidine;  $(CH_3)_2CHC_6H_4NH_2$ . (*p*-Isopropyl amino-benzene).  
ST codling moth. 915, 930.
- 671-951-1003-1021.  
Carvacrylamine;  $(CH_3)_2CH(CH_2)_2C_6H_4NH_2$ . (2-Amino-*p*-cymene; 2-*p*-cymylamine; 5-isopropyl-2-methyl aniline; cymidine).  
NT red scale. 268.
- 671-951-1011.  
Aniline, ethyl-, CU;  $C_6H_5C_2H_5NH_2$ . (Ethylaniline).  
ST codling moth. 915.
- 671-951-1013.  
Aniline fluosilicate;  $C_6H_5NH_2H_2SiF_6$ . 1225P.
- 671-951-1021.  
*o*-Toluidine;  $CH_3C_6H_4NH_2$ . (*o*-Methylaniline).  
T Japanese beetle and 50% T codling moth larvae; ST Colorado potato beetle and Mexican bean beetle. 495, 558, 606.
- 671-951-1021.  
*p*-Toluidine;  $CH_3C_6H_4NH_2$ .  
NT codling moth. 915.
- 671-951-1021.  
Benzylamine;  $C_6H_5CH_2NH_2$ . ( $\alpha$ -Aminotoluene).  
T codling moth and *Aphis rumicis*; NT red scale. 268, 915, 1152.
- 671-951-1021-1291.  
*o*-Toluidine hydrochloride;  $CH_3C_6H_4NH_2HCl$ .  
T Japanese beetle. 494.
- 671-951-1021-1313.  
Benzylamine fluosilicate;  $C_6H_5CH_2NH_2H_2SiF_6$ .  
T as mothproofing agent. 1179, 1225P, 1228P.
- 671-951-1022.  
2,4-Xylidine;  $(CH_3)_2C_6H_3NH_2$ . (4-Amino 1-3-dimethyl benzene; 2,4-dimethyl aniline; *ss-m*-xylidine).  
NT red scale. 268.
- 671-951-1022.  
2,6-Xylidine;  $(CH_3)_2C_6H_3NH_2$ . (2-Amino 1-4-dimethylbenzene; 2,6-dimethylaniline; *p*-xylidine).  
NT red scale, Colorado potato beetle, and Mexican bean beetle. 268, 606.
- 671-951-1022.  
2,6-Xylidine;  $(CH_3)_2C_6H_3NH_2$ . (2-Amino 1-3-dimethylbenzene; *vic-m*-xylidine; 2,6-dimethylaniline).  
T codling moth; NT red scale. 268, 915.
- 671-951-1022.  
3,5-Xylidine;  $(CH_3)_2C_6H_3NH_2$ . (5-Amino-1-3-dimethylbenzene; *sym-m*-xylidine; 3,5-dimethylaniline).  
NT red scale. 268.
- 671-951-1022-1291.  
2,5-Xylidine hydrochloride;  $(CH_3)_2C_6H_3NH_2HCl$ . (*p*-Xylidine HCl).  
NT *Pieris rapae*. 635.
- 671-951-1022-1291.  
Xylidine hydrochloride, CU;  $(CH_3)_2C_6H_3NH_2HCl$ .  
T Japanese beetle. 494.
- 671-951-1109-1182-1303.  
Aniline, ammonium nickel cyanide complex.  
NT *Leptinotarsa decemlineata*. 1008.
- 671-951-1113.  
Arsanilic acid;  $NH_2C_6H_4AsO(OH)_2$ . (*p*-Amino-benzenearsonic acid; *p*-aminophenylarsinic acid).  
T clothes moth; MT *Melanoplus m. mexicanus*. 639P, 1150, 1175.
- 671-951-1113-1142.  
Arsanilic acid, copper salt;  $NH_2C_6H_4AsO_2Cu$ . (Copper arsanilate).  
ST codling moth at 4%; NT greenhouse red spider at 4%. 1481.
- 671-951-1113-1218.  
Atoxy;  $NH_2C_6H_4AsO_2HNa$ . (Monosodium arsanilate).  
NT mosquito larvae. 487.
- 671-951-1291.  
Aniline hydrochloride;  $C_6H_5NH_2HCl$ .  
ST Japanese beetle. 494.
- 671-951-1450.  
Aniline, derivatives, CU.  
T as mothproofing agent. 823P, 1176.
- 671-952.  
2-Biphenylamine;  $C_6H_5C_6H_4NH_2$ . (*o*-Amino bi phenyl).  
73% T *Culex quinquefasciatus*; NT European corn borer. 156, 157, 1123.
- 671-952.  
Xenylamine;  $C_6H_5C_6H_4NH_2$ . (*p*-Phenylaniline; *p*-biphenylamine; 4-aminobiphenyl).  
98% T codling moth larvae and 80% T mosquito larvae. 156, 157, 487, 1291.
- 671-952-1021.  
Aniline, benzyl-, CU;  $NH_2C_6H_4CH_2C_6H_5$ . (Benzylphenylamine; aminodiphenylmethane; benzylaniline).  
T *Lucilia sericata* larvae and 50% T *Aphis rumicis*. 156, 723, 1377.
- 671-954-1023.  
Aniline, tribenzyl-, CU;  $(C_6H_5CH_2)_3C_6H_4NH_2$ . (Tribenzylphenylamine; tribenzylaniline).  
50% T *Aphis rumicis*. 1377.
- 671-961.  
Cyclohexylamine;  $C_6H_{11}NH_2$ .  
T screwworms at 0.10-0.17%. 156.
- 671-961-1313.  
Cyclohexylamine fluosilicate;  $C_6H_{11}NH_2H_2SiF_6$ .  
T as mothproofing agent. 1179, 1228P.
- 671-961-1380.  
Cyclohexylamine, compound with selenious acid;  $C_6H_{11}NH_2H_2SeO_3$ .  
T as mothproofing agent. 410P, 1175.
- 671-968-1313.  
Cyclopentylamine fluosilicate;  $C_5H_9NH_2H_2SiF_6$ .  
T as mothproofing agent. 1179, 1228P.
- 671-989.  
Dodecylamine;  $CH_3(CH_2)_{11}NH_2$ . (*pri-n*-Dodecylamine; 1-aminododecane; laurylamine).  
87% T *Lucilia sericata* larvae. 107P, 112, 593, 723.
- 671-989-1045.  
Dodecyl amine salts;  $C_{12}H_{25}NH_2$  R.  
T lower forms of life. 107P.
- 671-993.  
Heptylamine, 2-methyl-;  $CH_3(CH_2)_5CH(CH_3)NH_2$ . (*B*-Amino-*n*-octane;  $\alpha$ -methylheptylamine; 2-amino-octane; *sec-n*-octylamine; *sec-n*-caprylamine).  
NT red scale. 268.
- 671-995.  
*n*-Heptylamine;  $CH_3(CH_2)_6NH_2$ .  
NT red scale. 268, 723.
- 671-999.  
Amylamine;  $CH_3CH_2CH_2CH_2CH_2NH_2$ . (*n*-Amylamine; pentylamine; 1-aminopentane).  
T *Lucilia sericata* larvae and codling moth larvae; NT rice weevil and *Chrysomphalus aurantii*. 268, 723, 915, 1180.
- 671-999.  
Isocamylamine;  $CH_3CH(CH_3)CH_2CH_2NH_2$ . (1-Amino-3-methylbutane).  
100% T rice weevil. 268, 1180.
- 671-1001.  
Butylamine;  $CH_3CH_2CH_2CH_2NH_2$ . (1-Aminobutane).  
T *Lucilia sericata* larvae; NT rice weevil and *Chrysomphalus aurantii*. 268, 723, 1180.
- 671-1001.  
Isobutylamine;  $(CH_3)_2CHCH_2NH_2$ .  
100% T rice weevil; NT *Chrysomphalus aurantii*. 268, 1180.
- 671-1001.  
*sec*-Butylamine;  $CH_3CHNH_2CH_2CH_3$ . ( $\alpha$ -Methylpropyl amine; 2-aminobutane).  
100% T rice weevil; NT *Chrysomphalus aurantii*. 268, 1180.
- 671-1001-1313.  
Butylamine fluosilicate;  $C_4H_9NH_2H_2SiF_6$ .  
T as mothproofing agent. 207P, 1179, 1225P, 1228P.
- 671-1001-1318.  
Dibutylamine fluosilicate;  $(C_4H_9NH_2)_2H_2SiF_6$ .  
T as mothproofing agent. 301P, 307P, 1179, 1225P, 1228P.
- 671-1001-1380.  
Butylamine, compound with selenious acid;  $C_4H_9NH_2H_2SeO_3$ .

- T as mothproofing agent. 419P, 680P, 1175, 1179.  
671-1003.  
Propylamine;  $C_3H_7NH_2$   
NT *Chrysomphalus aurantii*. 268.  
671-1003.  
Isopropylamine;  $(CH_3)_2CHNH_2$   
NT *Chrysomphalus aurantii*. 268.  
671-1003-1030.  
Allylamine;  $CH_2=CHCH_2NH_2$ . (2-Propenylamine).  
80% T rice weevil; NT *Chrysomphalus aurantii*.  
268, 1180.  
671-1011.  
Ethylamine;  $C_2H_5NH_2$   
T *Agriotes*. 915, 1382.  
671-1021.  
Methylamine;  $CH_3NH_2$   
T *Agriotes*. 268, 1382.  
671-1021-1291.  
Methylamine hydrochloride;  $CH_3NH_2Cl$ .  
T *Aphis rumicis*. 1152.  
671-1027-1313.  
Amines, alkyl-, fluosilicates. (Fluosilicates of aliphatic bases).  
T as mothproofing agent. 1179, 1228P.  
671-1045-1313.  
Amine, fluosilicates, CU.  
T as mothproofing agent. 301P, 307P, 1179.  
672-681-951-963-1021.  
Cyclohexylamine, *N*-bensyl dicyclohexylamine, CU;  
 $(C_6H_{11}NH_2)_2C_6H_5NHCH_2C_6H_5$ ?  
T *Myzus persicae*. 772.  
672-681-952.  
Diphenylamine, 2,4-diamino-;  $C_6H_5NHC_6H_4(NH_2)_2$ .  
NT screwworms. 156.  
672-691-987-1012.  
Tetradecylamine, *N,N*-bis(2-aminoethyl)-;  $C_{14}H_{29}N$   
( $CH_3CH_2NH_2$ )<sub>2</sub>. (*N,N*-Tetradecyl diethylene triamine).  
T Ambrosia beetle. 816P.  
672-691-989-1012.  
Dodecylamine, *N,N*-bis(2-aminoethyl)-;  $C_{12}H_{25}N$   
( $CH_3CH_2NH_2$ )<sub>2</sub>. (*N,N*-Dodecyl diethylene triamine).  
T Ambrosia beetle. 816P.  
672-696-732-950-951-1023-1291.  
Safranine;  $C_{20}H_{25}ClN_4 + C_{22}H_{27}ClN_4$  (mixture).  
T *Lucilia cuprina* larvae. 167, 849.  
Safranine bluish.  
NT *Melanoplus m. mexicanus*. 167, 1150.  
Safranine Y.  
NT clothes moth. 974, 1176.  
672-730-950-951-1341.  
Phosphine RN; Phosphine GN;  $HN(C_2H_5)_2C_6H_4NH_2 \cdot HNO_2$ .  
Non-repellent to *Attagenus piceus* and *Tineola biselliella*. 739.  
672-732-950.  
Phenazine, 2,3-diamino-;  $(C_{12}H_8N_2)(NH_2)_2$ .  
T codling moth larvae. 1433P.  
672-781-952.  
*o*-Anisidine, 4,4'-thiodi-;  $(CH_3SC_6H_4NH_2)_2$ . (4,4'-Bi(*o*-thioanisidine)).  
83% T codling moth larvae. 487, 1291.  
672-782-952.  
Aniline, *o,o'*-dithiodi-;  $(NH_2C_6H_4)_2S_2$ . (Bis(1-aminophenyl)disulfide; di-*o*-aminophenyl disulfide).  
99% T *Culex quinquefasciatus*. 157, 172, 1178.  
672-951.  
*m*-Phenylenediamine;  $C_6H_4(NH_2)_2$ .  
NT *Pieris rapae*. 635, 1150.  
672-951.  
*o*-Phenylenediamine;  $C_6H_4(NH_2)_2$ . (1,2-Benzenediamine; 1,2-diaminobenzene).  
T screwworms, Japanese beetle, and 44-100% T *Lucilia sericata* larvae; ST codling moth at 4%.  
156, 494, 723, 1481.  
672-951.  
*p*-Phenylenediamine;  $C_6H_4(NH_2)_2$ . (1,4-Benzenediamine; 1,4-diaminobenzene).  
T codling moth, *Aphis rumicis*, 30% T *Bombyx mori*, and T screwworms at m.l.c. of 0.17-0.33%.  
156, 559, 915, 1152.  
672-951-1021.  
2,4-Toluenediamine;  $CH_3C_6H_3(NH_2)_2$ . (2,4-Diaminotoluene; 4-*m*-tolenylenediamine).  
T screwworms at m.l.c. of 0.17-0.33%; NT *Pieris rapae* and NT corn borer at 4 lbs./100 gal. 156, 635, 1122.  
672-951-1291.  
*m*-Phenylenediamine hydrochloride;  $C_6H_4(NH_2 \cdot HCl)_2$ .  
T *Aphis rumicis*. 1152.  
672-952.  
Benzidine;  $(C_6H_4NH_2)_2$ . (*p,p*-Bianiline; 4,4'-diaminobiphenyl).  
93% T codling moth larvae. 915, 1291.  
672-952-1021.  
Aniline, *p,p'*-methylenebis-;  $NH_2C_6H_4CH_2C_6H_4NH_2$ . (*p,p'*-Diamino diphenyl methane; *p,p'*-methylenedianiline; 4,4'-diaminodiphenylmethane).  
35% T Colorado potato beetle and 10% T Mexican bean beetle; NT *Bombyx mori* larvae. 559, 606.  
672-952-1022.  
*p*-Tolidine;  $(CH_3C_6H_4NH_2)_2$ .  
ST Japanese beetle. 494.  
672-952-1025.  
Aniline, *p,p'*-methylenebis[*N,N*-dimethyl-;  $CH_3[C_6H_4N(CH_3)_2]_2$ . (Tetramethyl diamino diphenyl methane).  
NT *Bombyx mori* larvae. 239, 559, 561.  
672-952-1291.  
Benzidine hydrochloride;  $(C_6H_4NH_2 \cdot HCl)_2$ .  
T *Aphis rumicis*. 1152.  
672-952-1312.  
Benzidine hydrofluoride;  $(C_6H_4NH_2 \cdot HF)_2$ . (Hydrofluoride of *p,p'*-bianiline).  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.  
672-1011-1027.  
Diamine, substituted, CU;  $H_2NCH_2RCH_2NH_2$ . 173P.  
672-1011-1291.  
Ethylenediamine hydrobromide;  $(-CH_2NH_2 \cdot HCl)_2$ .  
ST codling moth. 915.  
672-1011-1313.  
Ethylenediamine fluosilicate;  $(-CH_2NH_2 \cdot H_2SiF_6)_2$ .  
T as mothproofing agent. 1179, 1225P, 1228P.  
672-1011-1380.  
Ethylenediamine, compound with selenious acid;  $(-CH_2NH_2 \cdot H_2SeO_3)_2$ ?  
T as mothproofing agent. 399P, 419P, 429P, 679P, 1175.  
673-953-1025-1113.  
Arsine, tri(dimethylaminophenyl)-;  $[NH_2(CH_3)_2C_6H_5]_3As$ .  
T clothes moth. 639P, 1175.  
681-691-696-924-953-1025-1291.  
Victoria blue B;  $C_{20}H_{18}N_2$ . (Hydrochloride of phenyltetramethyl-triamino-diphenyl- $\alpha$ -naphtholcarbinol).  
NT clothes moth. 974, 1176.  
681-700-952-1021.  
Formamidine, *N,N'*-diphenyl-;  $C_6H_5N:CHNHC_6H_5$ . (Diphenylformamidine).  
T screwworms at m.l.c. of 0.33-0.67% and MT codling moth. 156, 915.  
681-701-951-1011.  
Acetonitrile,  $\alpha$ -anilino-;  $C_6H_5NECH_2CN$ . (Phenyl glycine nitrile).  
T Mexican bean beetle and Colorado potato beetle. 606.  
681-702-1012.  
Acetonitrile, 2,2'-iminodi-;  $HN(CH_3CN)_2$ . (Iminodiacetonitrile). 238P.  
681-730.  
Pyridine, 2,2'-iminodi-;  $(C_5H_4N)_2NH$ . (Di-2-pyridylamine).  
80% T mosquito larvae and 53% T codling moth larvae. 487, 1291.  
681-730-1001.  
Pyridine, 3-butylamino-;  $(C_5H_4N)NHC_4H_9$ . ( $\beta$ -Pyridyl-*n*-butylamine).  
ST *Aphis rumicis*. 1151.  
681-730-1001-1021.  
Pyridine, 3-(4-methylaminobutyl)-;  $(C_5H_4N)C_4H_8NHCH_3$ . (Dihydro metanicothine).  
T *Aphis rumicis*. 1151.  
681-730-1001-1021.  
Pyridine, 3-(1-methylaminobutyl)-;  $(C_5H_4N)CH(C_4H_8)NHCH_3$ . ( $\beta$ -Pyridyl-*n*-butyl-*N*-methylamine).  
MT *Aphis rumicis*. 1151.  
681-730-1001-1021-1030.  
Pyridine, 3-(4-methylamino-1-butenyl)-;  $(C_5H_4N)CH=CHC_4H_8NHCH_3$ . (Metanicothine).

- T *Aphis rumicis*. 1181.  
 681-730-1011.  
 Pyridine, 2-ethylamino-;  $(C_5H_5N)NHC_2H_5$ . ( $\beta$ -Pyridylethylamine).  
 ST *Aphis rumicis*. 1181.  
 681-730-1012.  
 Pyridine, 2-ethylaminomethyl-?  $(C_5H_5N)C_2H_5NHC_2H_5$ . ( $\beta$ -Pyridylethyl-N-ethylamine).  
 T *Aphis rumicis*. 1181.  
 681-781-982-1012-1276.  
 Diethylamine, 2,2'-phenylthio-, hydrobromide;  $(C_2H_5)_2SCH_2CH_2)_2NHHBr$ . (Diethylamine, 2,2'-phenylmercapto-, hydrobromide).  
 48% T culicid mosquito larvae. 172, 1178.  
 681-844-982.  
 Diphenylamine, 2,4,2',4'-tetrabromo-;  $Br_2C_6H_4-NHC_6H_4Br$ .  
 NT *Culex quinquefasciatus*, corn borer, and as mothproofing agent. 157, 239, 1120.  
 681-851-981-981-1022.  
 Cyclohexylamine, N-p-ochlorobenzyl-o-methyl-;  $ClC_6H_4CH_2NHC_6H_{11}CH_3$ .  
 T *Mysus porosus*. 772.  
 681-854-982.  
 Diphenylamine, 2,4,2',4'-tetrachloro-;  $Cl_2C_6H_4NHC_6H_4Cl_2$ .  
 NT corn borer and as mothproofing agent. 239, 1190.  
 681-924.  
 Di-2-naphthylamine;  $(C_{10}H_7)_2NH$ . (Di- $\beta$ -naphthylamine).  
 NT codling moth. 915.  
 681-924.  
 Dinaphthylamine, CU;  $(C_{10}H_7)_2NH$ .  
 ST *Pieris rapae*. 635.  
 681-924-981.  
 1-Naphthylamine, N-phenyl-;  $C_6H_5NHC_{10}H_7$ . (Phenyl- $\alpha$ -naphthylamine).  
 58% T mosquito larvae and 50% T *Aphis rumicis*; ST screwworms; NT *Epilachna borealis*. 156, 487, 1008, 1377.  
 681-924-981.  
 2-Naphthylamine, N-phenyl-;  $C_6H_5NHC_{10}H_7$ . (N-Phenyl- $\beta$ -naphthylamine).  
 NT *Bombyx mori* and screwworms. 156, 1377.  
 681-924-1011.  
 1-Naphthylamine, N-ethyl-;  $C_{10}H_7NHC_2H_5$ . (Ethyl- $\alpha$ -naphthylamine).  
 T codling moth. 915.  
 681-924-1021.  
 1-Naphthylamine, N-methyl-;  $C_{10}H_7NHC_2H_5$ . (Methyl- $\alpha$ -naphthylamine).  
 T codling moth. 915.  
 681-951-981.  
 Cyclohexylamine, N-phenyl-;  $C_6H_{11}NHC_6H_5$ .  
 T houseflies, *Mysus porosus*, and *Tetramesa telarius*. 112, 772, 1015P, 1276.  
 681-951-961-1021.  
 Cyclohexylamine, N-benzyl-;  $C_6H_{11}NHCH_2C_6H_5$ .  
 T houseflies and *Mysus porosus*. 112, 772, 1015P.  
 681-951-961-1022.  
 Cyclohexylamine, N-benzyl-o-methyl-;  $C_6H_5CH_2NHC_6H_{11}CH_3$ .  
 T *Mysus porosus*. 772.  
 681-951-999.  
 Aniline, N-isomyl-;  $C_6H_5NHC_5H_9$ . (N-Isomylphenylamine).  
 T codling moth and T screwworms at m.l.c. of 0.10-0.17%; NT red scale. 156, 268, 915.  
 681-951-1001.  
 Aniline, N-butyl-;  $C_6H_5NH(CH_2)_3CH_3$ . (n-Butylaniline).  
 T screwworms and 69-100% T *Lucilia sericata* larvae. 156, 723.  
 681-951-1003.  
 Aniline, N-propyl-;  $C_6H_5NHC_3H_7$ . (n-Propylaniline).  
 T screwworms at m.l.c. of 0.17-0.33%. 156.  
 681-951-1011-1021.  
 p-Toluidine, N-ethyl-;  $CH_3C_6H_4NHC_2H_5$ . (Ethyl p-toluidine).  
 Codling moth attractant. 1423A.  
 681-951-1021.  
 Aniline, N-methyl-;  $C_6H_5NHC_2H_5$ . (Methylaniline).  
 T *Agrotis*; ST codling moth. 915, 1382.  
 681-951-1022.  
 Benzylamine, N-methyl-?  $CH_3NEHC_6H_5$ . (Benzylmethylamine; N-benzylmethylamine?).  
 NT codling moth and red scale. 268, 915.  
 681-952.  
 Diphenylamine;  $C_6H_5NHC_6H_5$ . (N-Phenylaniline; anilinobenzene).  
 T codling moth, Japanese beetle, and young screwworm larvae; ST greenhouse red spider; NT southern army worm and silkworm. 26, 494, 561, 915, 1080, 1481.  
 681-952-1021.  
 Benzylamine, N-phenyl-;  $C_6H_5NHCH_2C_6H_5$ . (Aniline, N-benzyl).  
 T houseflies. 1276.  
 681-952-1022.  
 o-Toluidine, N-benzyl-;  $C_6H_4CH_2NHC_6H_5CH_3$ .  
 NT *Bombyx mori* larvae. 559.  
 681-952-1022.  
 Dibenzylamine;  $(C_6H_5CH_2)_2NH$ .  
 T codling moth and 50% T *Aphis rumicis*. 915, 1377.  
 681-952-1291.  
 Diphenylamine hydrochloride;  $(C_6H_5)_2NH.HCl$ .  
 T screwworms at m.l.c. of 0.10-0.17%. 156.  
 681-952-1389.  
 Diphenylamine sulphate;  $[(C_6H_5)_2NH]_2H_2SO_4$ .  
 NT *Melanosoma m. mexicanus*. 1150.  
 681-952-1405.  
 Diphenylamine, dithiocarbonyl-;  $[(C_6H_5)_2NH]_2SCN$ .  
 Fly spray. 112, 1032P.  
 681-961-983.  
 Cyclohexylamine, N-octyl-;  $C_6H_{11}NHC_8H_{17}$ .  
 T *Mysus porosus*. 772.  
 681-961-999.  
 Cyclohexylamine, N-amylyl-;  $C_6H_{11}NHC_8H_{17}$ .  
 T houseflies at 5% and T *Mysus porosus*. 112, 772, 1015P, 1276.  
 681-961-1001.  
 Cyclohexylamine, N-butyl-;  $C_6H_{11}NHC_4H_9$ .  
 T *Mysus porosus*. 772.  
 681-961-1001.  
 Cyclohexylamine, N-isobutyl-;  $C_6H_{11}NHC_4H_9$ .  
 T *Mysus porosus*. 772.  
 681-961-1003.  
 Cyclohexylamine, N-propyl-;  $C_6H_{11}NHC_3H_7$ .  
 T *Mysus porosus*. 772.  
 681-961-1003.  
 Cyclohexylamine, N-isopropyl-;  $C_6H_{11}NHC_3H_7$ .  
 T *Mysus porosus*. 772.  
 681-961-1003-1030.  
 Cyclohexylamine, N-allyl-;  $C_6H_{11}NHCH_2CH:CH_2$ .  
 T *Mysus porosus*. 772.  
 681-961-1011.  
 Cyclohexylamine, N-ethyl-;  $C_6H_{11}NHC_2H_5$ .  
 T *Mysus porosus*. 772.  
 681-961-1031.  
 Cyclohexylamine, N-methyl-;  $C_6H_{11}NHC_2H_5$ .  
 T *Mysus porosus*. 772.  
 681-962.  
 Dicyclohexylamine;  $(C_6H_{11})_2NH$ .  
 T houseflies. 1276.  
 681-989.  
 Didodecylamine;  $(C_{12}H_{25})_2NH$ .  
 MT houseflies. 112, 1127P.  
 681-991.  
 Didecylamine;  $(C_{10}H_{21})_2NH$ .  
 12% T houseflies at 5%. 271.  
 681-991-997.  
 Decylamine, N-hexyl-;  $C_6H_{13}NHC_{10}H_{21}$ .  
 61% T houseflies at 5%. 271.  
 681-991-1003.  
 Decylamine, N-propyl-;  $C_6H_{13}NHC_{10}H_{21}$ .  
 13% T houseflies at 5%. 271.  
 681-992-1001.  
 Nonylamine, N-butyl-;  $C_9H_{19}NHC_4H_9$ .  
 45% T houseflies at 5%. 271.  
 681-993-995.  
 Octylamine, N-heptyl-;  $C_7H_{15}NHC_8H_{17}$ .  
 80% T houseflies at 5%. 271.  
 681-993-995.  
 Diheptylamine, 1-methyl-;  $C_7H_{15}NEHC(CH_3)_2C_6H_{13}$ .  
 (N,n-heptyl, 2-aminooctane).  
 61% T houseflies at 5%. 271.

- 681-993-997.  
Heptylamine, *N*-hexyl-1-methyl-;  $C_6H_{13}NHCH-(CH_2)_4C_6H_{13}$ . (*N*,*n*-Hexyl, 2-aminoheptane).  
48% T houseflies at 5%. 271.
- 681-993-999.  
Octylamine, *N*-amyl-;  $C_8H_{17}NHCH_2C_4H_9$ .  
64% T houseflies at 5%. 271.
- 681-994.  
Dioctylamine;  $[CH_2(CH_2)_7CH_3]_2NH$ . (Amine di-*n*-octyl).  
T houseflies. 112, 271, 1127P, 1144, 1276.
- 681-994.  
Dihexylamine, 2,2'-diethyl-;  $[C_4H_9CH(C_2H_5)CH_2]_2NH$ . (Amine di-(2-ethyl-*n*-hexyl)-).  
NT houseflies. 271, 1276.
- 681-994-1291.  
Dioctylamine hydrochloride;  $(C_8H_{17})_2NH.HCl$ .  
Fly spray. 112, 1127P.
- 681-994-1480.  
Dioctylamine derivatives. (Salts of dioctyl amine).  
1127P.
- 681-995-997.  
Heptylamine, *N*-Hexyl-;  $C_6H_{13}NHCH_2C_6H_{13}$ .  
81% T houseflies at 5%. 271, 1144.
- 681-995-997.  
Dihexylamine, 1-methyl-;  $C_6H_{13}NHCH(CH_3)C_6H_{13}$ . (*N*,*n*-Hexyl, 2-aminoheptane).  
71% T houseflies at 5%. 271.
- 681-995-997.  
Hexylamine, *N*-(1-propylbutyl)-;  $C_6H_{13}NHCH(C_4H_9)C_3H_7$ . (*N*,*n*-Hexyl, 4-aminoheptane).  
31% T houseflies at 5%. 271.
- 681-996.  
Diheptylamine;  $(C_7H_{15})_2NH$ . (Di-*n*-heptylamine).  
73% T houseflies at 5%. 271.
- 681-996.  
Heptylamine, *N*-(1-methylamyl)-;  $C_7H_{15}NHCH-(CH_2)_4C_6H_{13}$ . (*N*,*n*-Heptyl, 2-aminoheptane).  
49% T houseflies at 5%. 271.
- 681-996.  
Heptylamine, *N*-(1-propylbutyl)-;  $C_7H_{15}NHCH-(C_4H_9)C_3H_7$ . (*N*,*n*-Heptyl, 4-aminoheptane).  
46% T houseflies at 5%. 271.
- 681-998.  
Dihexylamine;  $(C_6H_{13})_2NH$ .  
58% T houseflies at 5%. 112, 271, 1127P.
- 681-1000.  
Diamylamine;  $[CH_2(CH_2)_4]_2NH$ .  
83% T houseflies, 49-73% T *Lucilia sericata* larvae, and T *Aphis rumicis*. 112, 156, 271, 723, 1127P, 1152.
- 681-1000.  
Diisobutylamine;  $((CH_3)_2CHCH_2CH_2)_2NH$ . (Bis-( $\gamma$ -methylbutyl)amine).  
NT rice weevil. 1180.
- 681-1002.  
Dibutylamine;  $[CH_2(CH_2)_3]_2NH$ .  
T rice weevil, *Culex quinquefasciatus*, screwworm larvae, 87-100% T *Lucilia sericata*, and 83% T houseflies. 112, 157, 268, 271, 944, 1127P, 1180, 1403.
- 681-1002.  
Diisobutylamine;  $((CH_3)_2CHCH_2)_2NH$ . (Bis-( $\beta$ -methylpropyl)amine).  
100% T rice weevil; ST houseflies. 271, 1180.
- 681-1004.  
Dipropylamine;  $(C_3H_7)_2NH$ .  
100% T rice weevil. 268, 271, 1180.
- 681-1004.  
Diisopropylamine;  $[(CH_3)_2CH]_2NH$ .  
100% T rice weevil. 268, 1180.
- 681-1004-1033.  
Diallylamine;  $(CH_2=CHCH_2)_2NH$ . (Di-2-propenylamine).  
100% T rice weevil. 1180.
- 681-1012.  
Diethylamine;  $(C_2H_5)_2NH$ .  
T *Lucilia cuprina* and codling moth larvae; NT red scale. 268, 849, 915.
- 681-1023.  
Dimethylamine;  $(CH_3)_2NH$ .  
T *Sitophilus oryzae*. 1180.
- 682-700-955.  
Asophasine;  $(C_6H_5N)_2C_6H_5(NHC_6H_5)_2$ .  
ST potato leaf hopper and codling moth at 4%. 1481.
- 682-700-955-1022-1291.  
Spirit blue;  
 $C_{26}H_{22}N_2O_2$   
 $C_{27}H_{20}N_2Cl$   
 $C_{26}H_{20}N_2SO_4$   
(C. I. #689).  
(Phenylated rosaniline; may be acetate, hydrochloride or sulfate salt).  
NT mosquito larvae. 487.
- 682-730-951-1021.  
2,4-Toluenediamine, *N,N'*-bis(2-pyridyl)-;  $CH_3C_6H_4(NHC_5H_4N)_2$ . (*N,N'*-Di-2-pyridyl- $\alpha,\gamma$ -diaminotoluene).  
58% T mosquito larvae. 487.
- 682-800-953.  
Diphenylamine, *p*-anilino-, sulfurised, CU. (Sulfurised *p*-phenylamino-diphenylamine).  
20% T adult Mexican bean beetle. 606, 1432.
- 682-952-1011.  
Ethylenediamine, *N,N'*-diphenyl-;  $C_6H_5NHCH_2CH_2NHC_6H_5$ . (*N,N'*-Diphenylethylenediamine; ethylene-diphenyldiamine).  
93% T codling moth larvae. 487, 915, 1291.
- 682-953.  
*p*-Phenylenediamine, *N,N'*-diphenyl-;  $C_6H_4(NHC_6H_5)_2$ .  
NT mosquito larvae. 487, 1291.
- 683-1027-1030.  
Amines, alkylene, substituted;  $XNHR(NHR)nNHX$  (or a salt thereof).  
The above formula in which R is an alkylene radical selected from the group consisting of ethylene, trimethylene, and propylene radicals, X is selected from the group consisting of hydrogen and alkyl radicals having less than 21 carbon atoms, at least one of which is an alkyl radical having more than 7 carbon atoms, and n is a number from 0 to 2. 816P.
- 684-696-732-950-955-1291.  
Induline (Spirit soluble, C.I. #860);  $C_6H_5(C_{12}H_4-N_3)(NHC_6H_5)_2Cl$ .  
60% T codling moth larvae; NT mosquito larvae. 487, 1291.
- 691-696-953-1014-1021-1030-1389.  
Brilliant green;  $C_6H_5CH(C_6H_4N(C_6H_5)_2)_2H_2SO_4$ . (Diamond green C; emerald green; ethyl green; fast green J; fast green S; malachite green C; new Victoria green; smaragagreen; solid green J; solid green TIO).  
T codling moth and *Lucilia cuprina* larvae; NT clothes moth. 849, 915, 974, 1144, 1176.
- 691-696-953-1025-1030-1291.  
Malachite green;  $C_6H_5O[C_6H_4:N(CH_3)_2Cl]C_6H_4N(CH_3)_2$ .  
T codling moth and *Lucilia cuprina* larvae. 849, 915, 1144.
- 691-701-951-993-1021.  
Caprylonitrile,  $\alpha$ -(*N*-methylanilino)-;  $CH_3(CH_2)_6C(NC_6H_5(CH_3))CN$ . ( $\alpha$ -(*N*-Phenyl-*N*-methylamino) octonitrile). 238P.
- 691-701-951-1011-1023.  
Glycinonitrile, *N*-methyl-*N*-phenyl-;  $C_6H_5N(CH_3)CH_2CN$ ? (*N*-Phenyl-*N*-methylaminocetonitrile). 238P.
- 691-701-951-1013.  
Glycinonitrile, *N,N*-diethyl- $\alpha$ -phenyl-;  $(C_2H_5)_2NC(H(C_6H_5))CN$ . ( $\alpha$ -(Diethylamino)phenyl acetonitrile). 238P.
- 691-701-975-1011-1027-1030.  
Glycinonitrile, substituted-;  $R(R_2)NC(R_3)(R_4)CN$ . (Aminocetonitrile, substituted).  
The above formula where  $R_2$  and  $R_3$  may be H or the same or different alkyl, alkenyl, aralkyl or aryl groups, or may together form a closed methylene and R and R' may be the same or different alkyl, cycloalkyl, aralkyl or aryl groups or 1, etc. 238P.
- 691-730-951-1021.  
Pyridine, 3-(*N*-methyl-*N*-phenylamino)-;  $(C_6H_5N)_2N(CH_3)C_5H_4$ . ( $\beta$ -Pyridylphenylmethylamine).  
ST *Aphis rumicis*. 1181.
- 691-730-952.  
Pyridine, 2-(*N,N*-diphenylamino)-;  $(C_6H_5)_2NC_2H_4N$ . (Diphenyl-2-pyridylamine).

- 80% T mosquito larvae. 487.  
 691-730-1001-1003-1021-1030.  
 Pyridine, 3-[(4-butylmethylamino)-1-butenyl]-;  $(C_4H_9N)CH:CHC_4H_8N(CH_3)C_4H_9$ . (Propyl-metanicotine).  
 T *Aphis rumicis*. 1151.  
 691-730-1001-1021-1030.  
 Pyridine, 3-(4-dimethylamino-1-butenyl)-;  $(C_4H_9N)CH:CHC_4H_8N(CH_3)_2$ . (Methyl-metanicotine).  
 T *Aphis rumicis*. 1151.  
 691-800-953.  
 Triphenylamine, sulfurised.  
 NT adult Mexican bean beetle. 606, 1432.  
 691-887-1021-1045.  
 Cyclohexylamines, *N*-alkyl-*N*-(*O*-substituted alkyl)-;  $XOCH_2N(Z)Y$ .  
 The above formula in which X is selected from the group of phenyl, *C*-alkyl-substituted, and *C*-halogen-substituted phenyl radicals; Y from the group of cyclohexyl, *C*-alkyl substituted and *C*-halogen-substituted cyclohexyl radicals; and Z from the group of alkyl, chloroalkyl, and alkylol radicals.  
 Fly spray. 112, 1015P.  
 691-951-961-993-1021.  
 Cyclohexylamine, *N*-benzyl-*N*-octyl-;  $C_6H_5CH_2N(C_2H_5)_2$ .  
 Fly spray. 112, 1015P.  
 691-951-961-993-1021.  
 Cyclohexylamine, *N*-benzyl-*N*-2-ethylhexyl-;  $C_6H_5CH_2N(C_2H_5)(C_6H_{11})$ .  
 Fly spray. 112, 1015P.  
 691-951-961-997-1021.  
 Cyclohexylamine, *N*-benzyl-*N*-hexyl-;  $C_6H_5CH_2N(C_2H_5)(C_6H_{11})$ .  
 Fly spray. 112, 1015P.  
 691-951-961-999-1021.  
 Cyclohexylamine, *N*-amyl-*N*-benzyl-;  $C_6H_5CH_2N(C_2H_5)(CH_2)_4H_9$ .  
 HT red spider and thrips; T houseflies. 112, 774, 1015P.  
 691-951-961-1001-1021.  
 Cyclohexylamine, *N*-benzyl-*N*-butyl-;  $C_6H_5CH_2N(C_2H_5)(C_4H_9)$ .  
 Fly spray. 112, 1015P.  
 691-951-961-1011-1021.  
 Cyclohexylamine, *N*-benzyl-*N*-ethyl-;  $C_6H_5CH_2N(C_2H_5)(C_2H_5)$ .  
 NT houseflies. 112, 1015P, 1276.  
 691-951-961-1021.  
 Dicyclohexylamine, *N*-benzyl-;  $(C_6H_{11})_2NCH_2C_6H_5$ .  
 ST *Myzus persicae* and *Tetranychus telarius*. 772.  
 691-951-1001-1021.  
 Aniline, *N*-butyl-*N*-methyl-;  $C_6H_5N(CH_3)C_4H_9$ . (Phenyl-*n*-butyl-*N*-methylamine).  
 ST *Aphis rumicis*. 1151.  
 691-951-1012.  
 Aniline, *N,N*-diethyl-;  $C_6H_5N(C_2H_5)_2$ .  
 ST codling moth. 915.  
 691-951-1012-1021.  
 o-Toluidine, *N,N*-diethyl-;  $CH_3C_6H_4N(C_2H_5)_2$ .  
 ST codling moth. 915.  
 691-951-1022.  
 Aniline, *N,N*-dimethyl-;  $C_6H_5N(CH_3)_2$ . (Phenyl-*N*-methylmethylamine).  
 ST *Aphis rumicis*. 915, 1151, 1153.  
 691-951-1022-1113-1350.  
 Aniline, arsenoso-*N,N*-dimethyl-,  $CU? (CH_3)_2NC_6H_4AsO$ . (Dimethyl anilino arsenious oxide).  
 MT *Malacoform americana* at 0.1%. 119.  
 691-952-961-1021.  
 Cyclohexylamine, *N*-benzyl-*N*-phenyl-;  $C_6H_5CH_2N(C_2H_5)(C_6H_5)$ .  
 Fly spray. 112, 1015P.  
 691-952-1011-1022.  
 o-Toluidine, *N*-benzyl-*N*-ethyl-;  $CH_3C_6H_4N(C_2H_5)(CH_2C_6H_5)$ . (Ethyl benzyl o-toluidine).  
 T codling moth. 915.  
 691-952-1021.  
 Diphenylamine, *N*-methyl-;  $(C_6H_5)_2NCH_3$ .  
 T codling moth and T screwworms at m.l.c. of 0.17-0.33%. 156, 915.  
 691-953.  
 Triphenylamine;  $(C_6H_5)_3N$ .  
 18% T *Lucilia sericata* larvae; NT codling moth. 156, 723, 915.  
 691-953-1022.  
 Dibenzylamine, *N*-phenyl-;  $(C_6H_5CH_2)_2NC_6H_5$ . (*N*-Dibenzylaniline).  
 NT screwworms. 156.  
 691-953-1023.  
 Tribenzylamine;  $(C_6H_5CH_2)_3N$ .  
 T *Aphis rumicis*; NT screwworms and codling moth. 156, 915, 1377.  
 691-961-1022.  
 Cyclohexylamine, *N,N*-dimethyl-;  $C_6H_{11}N(CH_3)_2$ . (Dimethylaminocyclohexane). 539A.  
 691-989.  
 Tridodecylamine;  $N[(CH_2)_{12}]_3$ . (Trilaurylamine).  
 T houseflies. 107P, 112, 593P.  
 691-994.  
 Trioctylamine;  $(C_8H_{17})_3N$ .  
 NT houseflies. 1144.  
 691-1000.  
 Triamylamine;  $(C_5H_{11})_3N$ .  
 NT houseflies. 1276.  
 691-1000.  
 Triisamylamine;  $(C_5H_{11})_3N$ .  
 T codling moth; NT rice weevil. 915, 1180.  
 691-1002.  
 Tributylamine;  $[CH_2(CH_2)_3]_3N$ .  
 T rice weevil and 47-100% T *Lucilia sericata* larvae. 723, 1180.  
 691-1002-1313.  
 Tributylamine fluosilicate;  $(C_4H_9)_3NH_2SiF_6$ .  
 T as mothproofing agent. 307P, 1179, 1225P, 1228P.  
 691-1004.  
 Tripropylamine;  $(C_3H_7)_3N$ .  
 T *Sitophilus oryzae*. 1180.  
 691-1013.  
 Triethylamine;  $(C_2H_5)_3N$ .  
 ST codling moth; NT *Chrysomphalus aurantii*. 268, 915.  
 691-1013-1291.  
 Triethylamine hydrochloride;  $(C_2H_5)_3N.HCl$ .  
 T *Aphis rumicis*. 1152.  
 691-1023.  
 Trimethylamine;  $(CH_3)_3N$ .  
 ST codling moth. 915.  
 691-1023-1391.  
 Trimethylamine hydrochloride;  $(CH_3)_3N.HCl$ .  
 T *Aphis rumicis*. 1152.  
 692-696-952-1025-1030-1291.  
 Crystal violet;  $C_{25}H_{30}N_4Cl$ . (Methylrosaniline; hydrochloride of hexamethyl-*p*-rosaniline).  
 T *Lucilia cuprina* larvae. 849, 1144.  
 692-700-952-1025-1030-1291.  
 Methyl violet;  $C_{25}H_{30}N_4.HCl$ . (Hydrochloride of pentamethyl-*p*-rosaniline).  
 NT clothes moth. 974, 1176.  
 692-952-1024.  
 Bensidine, *N,N,N',N'*-tetramethyl-;  $(CH_3)_2NC_6H_4C_6H_4N(CH_3)_2$ .  
 NT *Bombyx mori* larvae. 561.  
 692-953-1025.  
 Aniline, *p,p'*-benzylidenebis [*N,N*-dimethyl-;  $C_6H_5CH_2C_6H_4N(CH_3)_2$ ]. (Bis(*p*-*N,N*-dimethylamino-phenyl)phenylmethane).  
 NT as mothproofing agent. 239.  
 693-953-1025.  
 Aniline, *p,p',p''*-methylidynetris [*N,N*-dimethyl-;  $[(CH_3)_2NC_6H_4]_3CH$ . (Tris(*p*-*N,N*-dimethylamino-phenyl) methane).  
 NT as mothproofing agent. 239.  
 693-953-1113.  
 Arsine, tris(*N*-dimethylanilino)-,  $CU? [(CH_3)_2NC_6H_5]_3As$ . (Arsine, tri-dimethylamino-phenyl).  
 T as mothproofing agent. 463P, 641P, 1176.  
 696-730-740-989-1021-1276.  
 Nicotinium bromide, dodecyl-;  $[C_{12}H_{25}N(C_{12}H_{25})Br]^+$ .  
 $C_{12}H_{25}NOH_2$ . (Nicotine dodecyl nicotinium bromide).  
 NT *Aphis rumicis*. 628.

- 696-730-740-989-1021-1276.  
Nicotinium dibromide, didodecyl-;  $[\text{C}_{12}\text{H}_{25}\text{N}(\text{C}_{12}\text{H}_{25})_2\text{Br}]_2\text{C}_2\text{H}_4\text{N}(\text{C}_{12}\text{H}_{25})_2(\text{CH}_2)_2\text{Br}$ . (Nicotine didodecyl nicotinium dibromide).  
NT *Aphis rumicis*. 628.
- 696-730-740-989-1021-1333.  
Nicotinium iodide, dodecyl-;  $[\text{C}_{12}\text{H}_{25}\text{N}(\text{C}_{12}\text{H}_{25})\text{I}]\text{C}_4\text{H}_7\text{NCH}_3$ .  
T *Aphis rumicis*. 110, 628.
- 696-730-740-989-1021-1333.  
Nicotinium diiodide, didodecyl-;  $[\text{C}_{12}\text{H}_{25}\text{N}(\text{C}_{12}\text{H}_{25})\text{I}]_2\text{C}_4\text{H}_7\text{N}(\text{C}_{12}\text{H}_{25})_2(\text{CH}_2)_2\text{I}$ .  
T *Aphis rumicis*. 110, 628.
- 696-730-950-1011-1023-1333.  
Quinolinium iodide, 2,6-dimethyl-1-ethyl-;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{N}(\text{C}_2\text{H}_5)\text{I}$ . (2,6-Dimethylquinoline ethiodide).  
NT silk moth. 110, 561.
- 696-730-950-1011-1021-1333.  
Quinaldinium iodide, 1-ethyl-;  $\text{CH}_3\text{C}_9\text{H}_6\text{N}(\text{C}_2\text{H}_5)\text{I}$ . (Quinaldine ethiodide).  
T screwworms at m.l.c. of 0.33-0.67%. 110, 156.
- 696-730-950-1011-1333.  
Quinolinium iodide, 1-ethyl-;  $\text{C}_9\text{H}_7\text{N}(\text{C}_2\text{H}_5)\text{I}$ . (Quinoline ethiodide).  
T screwworms at m.l.c. of 0.10-0.17%. 110, 156.
- 696-730-1003-1030-1276.  
Pyridinium bromide, 1-allyl-;  $(\text{C}_5\text{H}_5\text{N})(\text{CH}_2\text{CH}(\text{CH}_3))\text{Br}$ . (Pyridine allyl bromide).  
T *Aphis rumicis*. 1151.
- 696-730-1011-1030-1276.  
Pyridinium bromide, 1-vinyl-;  $(\text{C}_5\text{H}_5\text{N})(\text{CH}_2\text{CH}=\text{CH}_2)\text{Br}$ . (Pyridine vinyl bromide).  
T *Aphis rumicis*. 1151.
- 696-730-1011-1325.  
Pyridinium hydroxide, 1-ethyl-;  $\text{C}_5\text{H}_5\text{N}(\text{C}_2\text{H}_5)\text{OH}$ . (Pyridinium ethyl hydroxide).  
T *Aphis rumicis*. 1152.
- 696-730-1011-1333.  
Pyridinium iodide, 1-ethyl-;  $\text{C}_5\text{H}_5\text{N}(\text{C}_2\text{H}_5)\text{I}$ .  
T *Aphis rumicis*. 110, 1152.
- 696-730-1011-1339.  
Piperidinium sulfate, 1-ethyl-;  $\text{C}_6\text{H}_{10}\text{NC}_2\text{H}_5\text{H}_2\text{SO}_4$ . (N-Ethyl piperidine sulfate).  
T *Aphis rumicis*. 1152.
- 696-841-1011-1023-1276.  
Choline, bromo-, bromide;  $\text{BrC}_5\text{H}_{11}\text{N}(\text{CH}_3)_3\text{Br}$ .  
NT Colorado potato beetle and Mexican bean beetle. 606.
- 696-851-1011-1023-1291.  
Ammonium chloride, chloroethyltrimethyl-;  $\text{CN}(\text{CH}_3)_3\text{CH}_2\text{CH}_2\text{Cl}$ ?  
T *Aphis rumicis*. 994P.
- 696-951-989-1023-1291.  
Ammonium chloride, benzyltrimethyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_3(\text{C}_{12}\text{H}_{25})\text{Cl}$ . 351P.
- 696-975.  
Ammonium compounds, substituted alkyl-. (Cyclic quaternary ammonium compound).  
Selected from the class consisting of those containing from one to three monocyclic aryl radicals and those containing nitrogenous mono- and di- cyclic hetero radicals, there is a quaternary ammonium group selected from the group consisting of RN (anion)-alkyl(alkyl) and  $\text{C}_6\text{H}_5\text{N}$  (anion) aralkyl wherein R is a member of the group consisting of alkyl and aralkyl radicals. 1266AP.
- 696-1003-1023-1030-1276.  
Ammonium bromide, allyltrimethyl-;  $\text{CH}_3\text{CH}=\text{CHN}(\text{CH}_3)_3\text{Br}$ .  
T *Aphis rumicis*. 1151.
- 696-1003-1023-1030-1325.  
Ammonium hydroxide, allyltrimethyl-;  $\text{CH}_3\text{CH}=\text{CHN}(\text{CH}_3)_3\text{Br}$ .  
T *Aphis rumicis*. 1151.
- 696-1004-1325.  
Ammonium hydroxide, tetrapropyl-;  $(\text{C}_3\text{H}_7)_4\text{NOH}$ .  
T *Aphis rumicis*. 1152.
- 696-1011-1023-1030-1325.  
Neurine;  $\text{CH}_2\text{CHN}(\text{CH}_3)_2\text{OH}$ . (Vinyltrimethyl-ammonium hydroxide).  
T *Aphis rumicis*. 1151.
- 696-1014-1291.  
Ammonium chloride, tetraethyl-;  $(\text{C}_2\text{H}_5)_4\text{NCl}$ .  
T *Aphis rumicis*. 1152.
- 696-1014-1325.  
Ammonium hydroxide, tetraethyl-;  $(\text{C}_2\text{H}_5)_4\text{NOH}$ .  
NT codling moth. 915.
- 696-1024-1291.  
Ammonium chloride, tetramethyl-;  $(\text{CH}_3)_4\text{NCl}$ .  
T *Aphis rumicis*. 1152.
- 696-1024-1325.  
Ammonium hydroxide, tetramethyl-;  $(\text{CH}_3)_4\text{NOH}$ .  
T codling moth; NT rice weevil. 915, 1180, 1255P.
- 696-1024-1333.  
Ammonium iodide, tetramethyl-;  $(\text{CH}_3)_4\text{NI}$ . (Ammonium compound, tetramethyl-iodide).  
T Colorado potato beetle and Mexican bean beetle. 110, 606.
- 696-1045.  
Ammonium compounds, quaternary, substituted, CU.  
T as mothproofing agent. 678P, 1266AP.
- 700-951.  
Quinone dioxime;  $\text{C}_6\text{H}_4(\text{ONH})_2$ . 721AP.
- 700-952-1021.  
Aniline, N-benzylidene-;  $\text{C}_6\text{H}_5\text{N}:\text{CHC}_6\text{H}_5$ . (Benzal-aniline).  
100% T mosquito larvae and T screwworms at m.l.c. of 0.33-0.67%. 156, 239, 487.
- 700-953-1023.  
 $\alpha,\alpha$ -Toluenediamine, N,N-dibenzylidene?  $(\text{C}_6\text{H}_5\text{C}(\text{H})\text{N}_2)$ . (Hydrobenzamide).  
MT cockroaches and 29% T corn borer; NT codling moth. 587, 915, 1120.
- 701-730.  
Nicotinonitrile;  $(\text{C}_5\text{H}_4\text{N})\text{CN}$ . ( $\beta$ -Pyridyleyanide).  
ST *Aphis rumicis*. 1151.
- 701-851-951-1021.  
Benzonitrile, p-chloro-;  $\text{ClC}_6\text{H}_4\text{CN}$ .  
ST codling moth. 915.
- 701-851-1011.  
Acetonitrile, chloro-;  $\text{ClCH}_2\text{CN}$ .  
95% T *Tribolium confusum*. 1155.
- 701-851-1021.  
Cyanogen chloride;  $\text{CNCl}$ . (Chlorine cyanide).  
Injurious to plants. 154AP, 1041, 1295.
- 701-853-1011.  
Acetonitrile, trichloro-;  $\text{Cl}_3\text{CCN}$ . 1144.
- 701-871-1011.  
Acetonitrile, iodo-;  $\text{ICH}_2\text{CN}$ .  
HT insects. 110, 1092.
- 701-924-1021.  
1-Naphthonitrile;  $\text{C}_{10}\text{H}_7\text{CN}$ . ( $\alpha$ -Cyan-naphthalene).  
100% T *Aphis rumicis*. 173P.
- 701-924-1021.  
2-Naphthonitrile;  $\text{C}_{10}\text{H}_7\text{CN}$ . ( $\beta$ -Cyan-naphthalene).  
100% T *Aphis rumicis* and T screwworms. 156, 173P.
- 701-951-1011.  
 $\alpha$ -Tolunitrile;  $\text{C}_6\text{H}_5\text{CH}_2\text{CN}$ . (Phenoacetylnitrile; phenylacetone nitrile?).  
NT *Hippodamia convergens*. 1110.
- 701-951-1021.  
Benzonitrile;  $\text{C}_6\text{H}_5\text{CN}$ . (Benzene carbonitrile; phenyl cyanide).  
T *Leptinotarsa decemlineata* and housefly; NT codling moth and red scale. 268, 915, 1002, 1009.
- 701-951-1022.  
p-Tolunitrile;  $\text{CH}_3\text{C}_6\text{H}_4\text{CN}$ . (4-Methylbenzene carbonitrile; p-methylbenzonitrile).  
NT Colorado potato beetle and Mexican bean beetle. 606.
- 701-988.  
Tridecanenitrile;  $\text{C}_{13}\text{H}_{25}\text{CN}$ . (Lauryl cyanide; n-dodecyl cyanide?).  
T houseflies. 107P, 112, 593P, 1276.
- 701-997.  
Isocapro nitrile;  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CN}$ . (4-Methyl-pentanenitrile; isocapryl cyanide; isobutyl acetonitrile).  
100% T rice weevil. 1180.
- 701-999.  
Valeronitrile;  $\text{C}_5\text{H}_9\text{CN}$ . (Pentanenitrile; n-butyl cyanide).  
100% T rice weevil. 1180.
- 701-1001.  
Butyronitrile;  $\text{C}_4\text{H}_7\text{CN}$ .  
T rice weevil. 1180.
- 701-1001-1030.  
3-Butenylnitrile;  $\text{CH}_3\text{CHCH}_2\text{CN}$ . (3-Butanenitrile;

- vinylacetoneitrile;  $\beta$ -butenonitrile).  
NT red scale. 268.
- 701-1003.  
Propionitrile;  $C_3H_7CN$ .  
NT *Chrysomphalus aurantii*. 268.
- 701-1003-1030.  
Acrylonitrile;  $CH_2=CHCN$ . (Propenenitrile; vinyl cyanide).  
95% T *Tribolium confusum*. 1155.
- 701-1011.  
Acetonitrile;  $CH_3CN$ . (Ethanenitrile; methyl cyanide).  
T codling moth; NT red scale. 268, 915.
- 701-1027.  
Alkyl nitriles. 36P.
- 702-951-1022.  
Phthalonitrile;  $C_8H_4(CN)_2$ . (Orthodicyanobenzene).  
T codling moth larvae, screwworm, southern army worm, imported cabbage worm, melon worm, Hawaiian beet webworm, southern beet webworm, cowpea weevil, rice weevil, termites, and mosquito larvae. 157, 239, 1236, 1312, 1481.
- 702-999.  
Glutaronitrile;  $CH_2(CH_2CN)_2$ . (Trimethylene cyanide).  
T *Leptinotarsa decemlineata*. 1009.
- 702-1001.  
Sucomonitrile;  $(-OHCN)_2$ . (Ethylene cyanide).  
ST codling moth. 915.
- 711-951-1021.  
Phenyl isocyanide;  $C_6H_5NC$ .  
ST codling moth. 915.
720.  
Sparteine;  $C_{28}H_{48}N_8$ . (Lupinidine).  
T as mothproofing agent. 1176, 1260P.
730.  
Pyridine;  $C_5H_5N$ .  
T *Polychrosis botrana* and *Tribolium confusum*;  
NT wireworms. 175, 505P, 1020, 1093, 1149, 1183, 1214, 1396.
730.  
Piperidine;  $C_5H_{11}N$ . (Hexahydropyridine).  
ST *Aphis rumicis*. 119, 915, 1225P.
730.  
2,2'-Bipyridine;  $(C_5H_4N)_2$ . ( $\alpha,\alpha$ -Dipyridyl).  
T *Aphis rumicis*. 1153.
730.  
3,3'-Bipyridine;  $(C_5H_4N)_2$ . ( $\beta,\beta$ -Dipyridyl).  
T *Aphis rumicis*. 1153.
730.  
3,4'-Bipyridine;  $(C_5H_4N)_2$ . ( $\beta,\gamma$ -Dipyridyl).  
T *Aphis rumicis*. 1153.
730.  
4,4'-Bipyridine;  $(C_5H_4N)_2$ . ( $\gamma,\gamma$ -Dipyridyl).  
T *Aphis rumicis*. 1152.
730.  
Anabasine;  $(C_8H_8N)C_5H_5NH$ . ( $\beta$ -Pyridyl- $\alpha$ -piperidine; neonicotine).  
As contact poison 4 or 5 times as toxic as nicotine against certain aphids but ineffective as stomach poison; toxicity lower than nicotine against mosquito larvae. 171, 1169, 1312.
- Anabasine naphthenate.  
T coccids on citrus. 738A.
- Anabasine resinat.  
T beet aphids. 1228B.
- Anabasine dolphin blubber soap.  
ST coccids on citrus. 738A.
- For other anabasine compounds see:  
730-1021.  
730-1389.
730.  
Isonicotine;  $(C_5H_4N)C_6H_5NH$ .  
T *Aphis rumicis*. 1153.
- 730-740.  
d-Nornicotine;  $(C_5H_4N)C_6H_7NH$ . (3-(2-Pyrrolidyl)-pyridine).  
T *Aphis rumicis*. 625.
- 730-740.  
l-Nornicotine;  $(C_5H_4N)C_6H_7NH$ . (3-(2-Pyrrolidyl)-pyridine).  
T *Aphis rumicis*. 625.
- 730-740.  
dl-Nornicotine;  $(C_5H_4N)C_6H_7NH$ . (3-(2-Pyrrolidyl)pyridine).  
T *Aphis rumicis*. 625.
- 730-740-806-1021.  
Nicotine, sulfurised.  
NT European corn borer. 1120.
- 730-740-1021.  
 $\alpha$ -Nicotine;  $(C_5H_4N)C_6H_7NCH_3$ . (2-(1-Methyl-2-pyrrolidyl)pyridine).  
Less toxic than  $\beta$ -nicotine. 1146.
- 730-740-1021.  
d-Nicotine;  $(C_5H_4N)C_6H_7NCH_3$ .  
T *Aphis rumicis*. 625.
- 730-740-1021.  
l-Nicotine;  $(C_5H_4N)C_6H_7NCH_3$ . (Natural nicotine; 3-(1-methyl-2-pyrrolidyl)pyridine).  
ET many insects; standard insecticide. 79, 134, 477, 507, 625, 727, 747, 933A, 1043, 1046, 1068, 1071, 1280, 1347, 1380, 1485.
- 730-740-1021.  
dl-Nicotine;  $(C_5H_4N)C_6H_7NCH_3$ . (Racemic  $\alpha$ -( $\beta$ -pyridyl)-N-methylpyrrolidine).  
T *Aphis rumicis*. 261.
- 730-740-1021.  
 $\beta$ -Nicotyrine;  $(C_5H_4N)C_6H_5NCH_3$ .  
T *Aphis rumicis*. 1151.
- 730-740-1021.  
Piperidine, 3-(1-methyl-2-pyrrolidyl)-;  $(C_5H_5NH)C_6H_7NCH_3$ . (Hexahydronicotine).  
T *Aphis rumicis*. 1152.
- 730-740-1021-1108-1136-1405.  
Reinecke acid, compound with nicotine. (Nicotine reineckate).  
NT *Aphis rumicis* at 0.1%. 628.
- 730-740-1021-1142-1291.  
Nicotine, cupric chloride compound. (Nicotine  $CuCl_2$  double salt).  
30% T *Aphis rumicis* at 0.1%. 628.
- 730-740-1021-1142-1303.  
Nicotine cuprocyanide compound.  
NT *Aphis rumicis* at 0.1%. 628.
- 730-740-1021-1234-1291.  
Nicotine stannous chloride compound. (Nicotine  $SnCl_2$  double salt).  
52% T *Aphis rumicis* at 0.1%. 628.
- 730-740-1021-1244-1291.  
Nicotine zinc chloride compound. (Nicotine  $ZnCl_2$  double salt).  
30% T *Aphis rumicis* at 0.1%. 628.
- 730-740-1021-1313.  
Nicotine fluosilicate.  
MT Colorado potato beetle, Mexican bean beetle, and T as mothproofing agent. 307P, 606, 1179.
- 730-740-1021-1341.  
Nicotine nitrate.  
T *Rhopalosiphum ribis*. 1267A.
- 730-740-1021-1384-1420?  
Nicotine silicotungstate.  
NT *Aphis rumicis* at 0.1%. 628.
- 730-740-1021-1389.  
Nicotine sulfate.  
Commonly used insecticide.
- 730-740-1021-1393.  
Nicotine sulphite.  
T *Myzus persicae*. 1228A.
- 730-740-1023-1389.  
Nicotinium sulfate, dimethyl-.  
MT *Ascia rapae*, *Plutella maculipennis*, *Phytocacia rubigalis*, *Prodenia eridania*, and *Lycophotia infecta*. 1372.
- Nicotine alginate compound.  
78% T *Aphis rumicis* at 0.1%. 628.
- Nicotine areaket compound.  
78% T *Aphis rumicis* at 0.1%. 628.
- Nicotine bentonite compound.  
NT *Aphis rumicis* at 0.1%. 628.
- Nicotine casein compound.  
86% T *Aphis rumicis* at 0.1%. 628.
- Nicotine humic acid compound. (Nicotine humate).  
78% T *Aphis rumicis* at 0.1%. 628.
- Nicotine naphthenate compound.  
100% T *Aphis rumicis* at 0.1% and ST coccids on citrus. 628, 738A.
- Nicotine pest compound (10% total nicotine in pest).  
T *Aphis rumicis*; NT *Melanoplus m. mexicanus*. 628, 1150.
- Nicotine-resorcinol-formaldehyde mixture.

- T codling moth and *Lucilia cuprina* larvae; NT *Aphis rumicis* at 0.1%. 828, 849, 992A.  
Nicotine-dolphin blubber soap compound.  
ST coccids on citrus. 738A.  
Nicotine tannic acid compound. (Nicotine tannate).  
80% T *Bombyx mori* larvae. 561.  
Cellulose isonicotinate. 387P.  
Diiodonicotine-tannate-glycine compound. 194P, 195P, 196P.
- For other nicotine compounds see:  
187-730-951-1001-1021-1030.  
358-730-740-1021-1045.  
460-730-740-791-950-951-1021.  
460-730-740-791-950-1021.  
460-730-740-791-950-1022.  
541-581-730-740-951-1022.  
541-581-730-740-1003-1021.  
541-730-740-853-1011-1021.  
541-730-740-983-1021.  
541-730-740-983-1021-1030.  
541-730-740-983-1021-1033.  
541-730-740-989-1021.  
541-730-740-1011-1021.  
542-582-730-740-1001-1021.  
551-701-730-740-983-1022-1030.  
681-730-1001-1021.  
681-730-1001-1021-1030.  
691-730-1001-1003-1021-1080.  
691-730-1001-1021-1030.  
696-730-740-989-1021-1333.
- 730-796-1021.  
2-(1)-Pyridone, *N*-methyl-thio-;  $S:(C_6H_5N)CH_3$ .  
NT mosquito larvae. 487.
- 730-841.  
Pyridine, 3-bromo-;  $Br(C_6H_4N)$ .  
NT California red scale. 268.
- 730-851.  
Piperidine, chloro-,  $CU; (C_6H_{10}N)Cl$ .  
T *Aphis rumicis*. 1152.
- 730-851-950.  
Quinoline, 2-chloro-;  $(C_6H_4N)Cl$ . ( $\alpha$ -Chloroquinoline).  
T screwworms at m.l.c. of 0.03-0.05%. 156.
- 730-851-950-1021.  
Lepidine, 2-chloro-;  $CH_3(C_6H_4N)Cl$ . ( $\alpha$ -Chlorolepidine).  
ST codling moth. 915.
- 730-855.  
Pyridine, pentachloro-;  $(C_5N)Cl_5$ .  
NT *Pieris rapae*. 635.
- 730-924-1021.  
Benzoquinoline, methyl-,  $CU; (C_{12}H_8N)CH_3$ . 1225P.
- 730-950.  
Acridan;  $C_{12}H_{11}N$ . (9,10-Dihydroacridine).  
NT as mothproofing agent. 239.
- 730-950.  
Acridine;  $C_{12}H_9N$ .  
94% T mosquito larvae; NT *Melanoplus m. mexicanus*. 487, 1150, 1225P.
- 730-950.  
Isoquinoline;  $C_9H_7N$ . (Benzo[c]pyridine; 2-benzosine; leuconine).  
98% T *Culex quinquefasciatus* and T screwworm; MT silkworm; NT *Melanoplus m. mexicanus*. 156, 157, 561, 1150, 1225P.
- 730-950.  
Quinoline;  $C_9H_7N$ .  
T houseflies, codling moth, *Leptinoturea decemlineata*, and as mothproofing agent. 331P, 841, 915, 1009, 1176, 1225P, 1276.
- 730-950.  
Quinoline, tetrahydro-;  $C_9H_{11}N$ . ( $\alpha$ -H-Tetrahydroquinoline).  
T *Aphis rumicis*. 1073, 1152.
- 730-950-951.  
Quinoline, tetrahydro-2-phenyl-;  $(C_6H_{10}NH)C_6H_5$ . ( $\alpha$ -Phenyltetrahydroquinoline). 1073.
- 730-950-951-1021.  
Quinoline, tetrahydro-, 2-(*o*-tolyl)-;  $(C_9H_{10}NH)C_6H_4CH_3$ . ( $\alpha$ -*o*-Tolyltetrahydroquinoline). 1073.
- 730-950-951-1021.  
Quinoline, tetrahydro, 2-(*p*-tolyl)-;  $(C_9H_{10}NH)C_6H_4CH_3$ . ( $\alpha$ -*p*-Tolyltetrahydroquinoline). 1073.
- 730-950-951-1023.  
Quinoline, tetrahydro-, 2-( $\alpha$ -menthyl)-;  $(CH_3)_2C_6H_4$ .
- $H_3CH_2C_6H_4NH$ . ( $\alpha$ -Menthyltetrahydroquinoline). 1973.
- 730-950-1001.  
Quinoline, tetrahydro-, 2-butyl-;  $C_4H_9C_6H_4NH$ . ( $\alpha$ -*n*-Butyltetrahydroquinoline). 1073.
- 730-950-1011.  
Quinoline, tetrahydro-, 2-ethyl-;  $C_2H_5C_6H_4NH$ . ( $\alpha$ -Ethyltetrahydroquinoline). 1073.
- 730-950-1021.  
Quinaldine;  $CH_3C_6H_4N$ . (2-Methyl quinoline).  
HT screwworms at m.l.c. of 0.03-0.05%; MT codling moth and T *Aphis rumicis*. 156, 915, 1152, 1225P.
- 730-950-1021.  
Lepidine;  $CH_3C_6H_4N$ . (4-Methyl quinoline).  
12.5% T wireworms at 537.0 mg./l. 846.
- 730-950-1021.  
Quinoline, 6-methyl-;  $CH_3C_6H_4N$ .  
HT screwworms and 75% T *Culex quinquefasciatus*. 156, 157.
- 730-950-1021.  
Quinoline, 7-methyl-;  $CH_3C_6H_4N$ .  
94% T *Culex quinquefasciatus* and T screwworms. 156, 157.
- 730-950-1021.  
Quinoline, 8-methyl-;  $CH_3C_6H_4N$ .  
100% T *Culex quinquefasciatus* and T screwworms. 156, 157.
- 730-950-1021.  
Quinoline, tetrahydro-, 2-methyl-;  $CH_3C_6H_{10}NH$ . ( $\alpha$ -Methyltetrahydroquinoline). 1073.
- 730-950-1022.  
Acridan, 5,5-dimethyl-;  $(C_{12}H_9N)(CH_3)_2$ .  
T many species of insects. 27, 156, 157, 487, 587, 1291, 1312.
- 730-950-1022.  
Quinoline, 2,4-dimethyl-;  $(CH_3)_2C_6H_4N$ . (4-Methyl quinaldine).  
HT screwworms; 68% T *Culex quinquefasciatus*. 156, 157.
- 730-950-1022.  
Quinoline, 2,6-dimethyl-;  $(CH_3)_2C_6H_4N$ . (*p*-Toluquinaldine; 6-methylquinaldine).  
HT screwworms and 99% T *Culex quinquefasciatus*. 156, 157.
- 730-950-1023.  
Quinoline, 1,2-dihydro-2,2,4-trimethyl-;  $(CH_3)_3C_6H_4N$ .  
100% T codling moth larvae. 1291.
- 730-950-1027.  
Acridan, dialkyl-,  $CU$ . 1232P.
- 730-950-1312.  
Quinoline hydrofluoride;  $C_9H_7N.HF$ .  
NT clothes moth. 739, 1176.
- 730-950-1313.  
Quinoline fluosilicate;  $(C_9H_7N)_2H_2SiF_6$ .  
T as mothproofing agent. 301P, 307P, 1179.
- 730-950-1314.  
Quinoline fluosulphonate;  $C_9H_7N.HSO_3F$ ?  
T as mothproofing agent. 823P, 1176.
- 730-950-1389.  
Quinoline sulphate;  $C_9H_7N.H_2SO_4$ .  
NT clothes moth. 739, 1176.
- 730-950-1450.  
Quinoline salts,  $CU$ .  
T as mothproofing agent. 823P, 1176.
- 730-951-1021.  
Pyridine, 2-benzyl-;  $C_6H_5CH_2C_6H_4N$ . ( $\alpha$ -Benzylpyridine).  
T *Aphis rumicis*. 1151.
- 730-951-1021.  
Pyridine, 3-benzyl-;  $C_6H_5CH_2C_6H_4N$ . ( $\beta$ -Benzylpyridine).  
T *Aphis rumicis*. 1151.
- 730-951-1021.  
Pyridine, 4-benzyl-;  $C_6H_5CH_2C_6H_4N$ . ( $\gamma$ -Benzylpyridine).  
T *Aphis rumicis*. 1151.
- 730-989-1193-1276.  
Phosphonium bromide, dodecyl tri-1-piperidyl-;  $(C_{12}H_{25}N)_3P(C_{12}H_{25})Br$ . 518P.
- 730-1003.  
Camphor;  $C_{15}H_{27}O$ .  
T as mothproofing agent. 1133P, 1176.



- 730-1003-1030.  
Pyridine, 3-allyl-;  $\text{CH}_3\text{CHCH}_2\text{C}_5\text{H}_4\text{N}$ . ( $\beta$ -2-Allyl-pyridine).  
ST *Aphis rumicis*. 1151.
- 730-1003-1276.  
Coniine hydrobromide;  $\text{C}_8\text{H}_7\text{C}_2\text{H}_5\text{NH.HBr}$ . (Hemlock alkaloid).  
NT codling moth. 915.
- 730-1003-1291.  
Coniine hydrochloride;  $\text{C}_8\text{H}_7\text{C}_2\text{H}_5\text{NH.HCl}$ .  
T *Aphis rumicis*. 1152.
- 730-1011-1021.  
Collidine, CU;  $\text{CH}_3(\text{C}_6\text{H}_5\text{N})\text{C}_2\text{H}_5$ . (Ethylmethylpyridine). 1225P.
- 730-1021.  
Piperidine, 1,1'-methylenedi-;  $(\text{C}_5\text{H}_9\text{N})_2\text{CH}_2$ . (Methylene dipiperidine).  
T *Aphis rumicis*. 1152.
- 730-1021.  
2-Picoline;  $\text{CH}_3\text{C}_5\text{H}_4\text{N}$ . ( $\alpha$ -Picoline; 2-methylpyridine).  
T codling moth; NT California red scale. 288, 915, 1225P.
- 730-1021.  
Anabasine, methyl-;  $(\text{C}_6\text{H}_4\text{N})\text{C}_2\text{H}_5\text{NCH}_3$ .  
T mosquito larvae. 171.
- 730-1021-1193-1333.  
Phosphonium iodide, *N*-tripiperidino methyl-;  $(\text{C}_5\text{H}_9\text{N})_3\text{CH}_2\text{PI}$ .  
T as mothproofing agent. 110, 530P.
- 730-1022.  
Lutidine, CU;  $(\text{CH}_3)_2\text{C}_5\text{H}_6\text{N}$ . (Dimethylpyridine). 1225P.
- 730-1023.  
 $\alpha$ -Collidine;  $(\text{CH}_3)_2\text{C}_5\text{H}_6\text{N}$ . (2,4,6-Trimethylpyridine;  $\gamma$ -collidine). 934P.
- 730-1024-1333.  
2,3'-Bipyridinium iodide, 1,1'-dimethyl-;  $[(\text{C}_5\text{H}_4\text{N}(\text{CH}_3))_2]_2$ . ( $\alpha,\beta$ -Dipyridyl dimethyl iodide).  
T aphids. 110, 1305.
- 730-1024-1333.  
4,4'-Bipyridinium iodide, 1,1'-dimethyl-;  $[(\text{C}_5\text{H}_4\text{N}(\text{CH}_3))_2]_2$ . ( $\gamma,\gamma'$ -Dipyridyl dimethyl iodide).  
T aphids. 110, 1305.
- 730-1045.  
Pyridine, alkaloidal derivatives.  
T as mothproofing agent. 1133P, 1179.
- 730-1045.  
Piperidine, alkaloidal derivatives.  
T as mothproofing agent. 1133P, 1179.
- 730-1108-1136-1142-1405.  
Reinecke acid, piperidine salt;  $\text{C}_5\text{H}_{10}\text{NH.H}(\text{Cr}(\text{N}_3)_2(\text{SCN})_2)$ . (Tetrathiocyanatodiamino chromium piperidine; reineckate, piperidinum).  
100% T Mexican bean beetle, 90-100% T Colorado potato beetle, and 59% T codling moth larvae. 606, 785P, 1432.
- 730-1192-1392.  
Phosphine sulfide, triperidyl-;  $(\text{C}_5\text{H}_{10}\text{N})_3\text{PS}$ ? (Triperidyl-*N*-phosphorus sulfide). 522P.
- 730-1193-1333.  
Phosphonium diiodide, tris(1-piperidyl)-;  $(\text{C}_5\text{H}_{10}\text{N})_3\text{PI}_2$ ? (Phosphonium iodide, *N*-tripiperidyl). 110, 522P.
- 730-1312.  
Pyridine hydrofluoride;  $\text{C}_5\text{H}_5\text{N.HF}$ .  
T as mothproofing agent. 1175, 1357P.
- 730-1313.  
Pyridine fluosilicate;  $\text{C}_5\text{H}_5\text{N.H}_2\text{SiF}_6$ ?  
T as mothproofing agent. 307P, 1179.
- 730-1313.  
Piperidine fluosilicate;  $\text{C}_5\text{H}_{10}\text{N.H}_2\text{SiF}_6$ ?  
T as mothproofing agent. 307P, 1179.
- 730-1314.  
Pyridine fluosulphonate;  $\text{C}_5\text{H}_5\text{N.HSO}_3\text{F}$ ?  
T as mothproofing agent. 823P, 1176.
- 730-1389.  
Bipyridine sulfate, CU;  $(-\text{C}_5\text{H}_4\text{N})_2\text{H}_2\text{SO}_4$ ? (Dipyridyl sulphate). 1039A.
- 730-1389.  
Piperidine sulfate;  $(\text{C}_5\text{H}_9\text{N})_2\text{H}_2\text{SO}_4$ ?  
T *Aphis rumicis*. 1152.
- 730-1389.  
Anabasine sulphate (40% anabasine);  $(\text{C}_6\text{H}_4\text{N})\text{C}_2\text{H}_5\text{N.H}_2\text{SO}_4$ .
- T *Myzus persicae* and T *Lucilia cuprina* larvae at 0.1%; ST Japanese beetle. 498A, 849, 1297.
- 730-1450.  
Pyridine salts, CU.  
T as mothproofing agent. 823P, 1176.
732.  
Piperazine;  $\text{C}_4\text{H}_{10}\text{N}_2$ . (Hexahydropyrazine; diethylmethylenediamine).  
T *Aphis rumicis* and 80% T *Bombyx mori* larvae. 357P, 561, 1152.
732.  
Piperazine hexahydrate;  $(\text{C}_4\text{H}_{10}\text{N}_2).6\text{H}_2\text{O}$ . (Piperazine hydrate).  
T codling moth; NT as mothproofing agent. 239, 915.
732.  
Pyrimidine;  $\text{C}_4\text{H}_4\text{N}_2$ .  
T as mothproofing agent. 684P, 1175.
- 732-852-950-951.  
Quinazoline, 3,4-dihydro-6-chloro-3-(*p*-chlorophenyl)-;  $\text{Cl}(\text{C}_6\text{H}_4\text{N}_2)\text{C}_6\text{H}_4\text{Cl}$ . (3-(4-Chlorobenzene)-6-chloro-3,4-dihydroquinazoline).  
ST codling moth at 4%. 1481.
- 732-910-924.  
Benzo-[a]-naphtho-[2,1-c]-phenazine;  $\text{C}_{20}\text{H}_{14}\text{N}_2$ .  
NT as mothproofing agent. 239.
- 732-910-950.  
Dibenzo [a,c]phenazine;  $\text{C}_{20}\text{H}_{12}\text{N}_2$ . (1,2; 3,4-Dibenzo phenazines).  
ST codling moth at 4%; NT greenhouse red spider at 4%. 1481.
- 732-924.  
Dibenzo [a,h]phenazine?  $\text{C}_{20}\text{H}_{12}\text{N}_2$ . (Naphthazine).  
ST codling moth at 4%; NT greenhouse red spider at 4%. 1481.
- 732-950.  
Phenazine;  $\text{C}_{15}\text{H}_8\text{N}_2$ .  
T clothes moth, southern beet webworm, rice weevil, Hawaiian beet webworm, termites, codling moth larvae, and European corn borer but burns foliage severely; NT as mothproofing agent (239). 27, 239, 1120, 1312, 1433P, 1481.
- 732-950.  
Benzo[c]cinoline;  $\text{C}_{15}\text{H}_{10}\text{N}_2$ . (3,4-Benzocinoline).  
86% T mosquito larvae and 8% T codling moth larvae. 487, 1291.
- 732-950.  
Phenazine, dihydro-;  $\text{C}_{15}\text{H}_{10}\text{N}_2$ .  
HT codling moth at 4%. 1481.
- 732-950-1113.  
Phenazine diarsonic acid;  $(\text{C}_{12}\text{H}_8\text{N}_2)(\text{AsO}_2\text{H}_2)_2$ .  
ST codling moth at 4%; NT southern army worm at 4%. 1481.
- 732-950-1350.  
Phenazine, 5-oxide-;  $\text{O}:(\text{C}_{15}\text{H}_8\text{N}_2)$ .  
100% T corn borer, 98% T *Culex quinquefasciatus*, and T screwworm larvae. 157, 944, 1120.
- 732-952.  
Piperazine, 1,4-diphenyl-;  $(\text{C}_6\text{H}_5\text{N}_2)(\text{C}_6\text{H}_5)_2$ .  
T codling moth; NT *Bombyx mori* larvae and as mothproofing agent. 239, 559, 915.
- 732-952-1291.  
Piperazine, 1,4-diphenyl-, hydrochloride;  $(\text{C}_6\text{H}_5\text{N}_2)(\text{C}_6\text{H}_5)_2.2\text{HCl}$ .  
NT codling moth. 915.
- 732-1333.  
Piperazine, diiodo-;  $(\text{C}_5\text{H}_{10}\text{N}_2).2\text{HI}$ . 110, 1141P.
733.  
Hexamethylenetetramine;  $\text{C}_6\text{H}_{12}\text{N}_4$ . (Formin).  
T *Aphis rumicis* and as mothproofing agent. 277P, 1152, 1176, 1488P.
- 733-1021.  
Triazine, methyl-, CU;  $(\text{C}_6\text{H}_5\text{N}_3)\text{CH}_3$ . (Monomethyltriazine). 361P.
- 733-1022.  
 $\alpha$ -Triazine, dimethyl-, CU;  $(\text{C}_6\text{H}_5\text{N}_3)(\text{CH}_3)_2$ . (Dimethyltriazine). 361P.
- 733-1314.  
Hexamethylenetetramine fluosulphonate;  $(\text{C}_6\text{H}_{12}\text{N}_4).-\text{HSO}_3\text{F}$ ?  
T as mothproofing agent. 823P, 1176.
- 733-1450.  
Hexamethylenetetramine salts.  
T as mothproofing agent. 823P, 1176.

740.  
Pyrrole;  $C_4H_5NH$ .  
T *Aphis rumicis*. 1151, 1152.
740.  
Pyrrolidine;  $C_4H_9NH$ . (Tetrahydropyrrole; tetramethylenimine). 1225P.
- 740-825.  
Pyrrolidina, 2-(2-thienyl)-;  $(C_4H_5N)(C_4H_5S)$ . ( $\alpha$ -Thienyl- $\alpha$ -pyrrolidine).  
50% T *Thermobia domestica* at 1.2%. 799, 800.
- 740-851-950.  
Carbasole, 3-chloro-;  $(C_{12}H_9N)Cl$ .  
95% T codling moth larvae and 52% T mosquito larvae. 487, 1291.
- 740-851-951-1021.  
Pyrrolidine, 2-(*p*-chlorophenyl)-1-methyl-;  $CH_3(C_4H_4N)C_6H_4Cl$ . ( $\alpha$ -(*p*-Chlorophenyl)-*N*-methylpyrrolidine).  
T *Aphis rumicis*. 261.
- 740-852-950.  
Carbasole, 3,6-dichloro-;  $(C_{12}H_7N)Cl_2$ . (3,6-Dichlorodiphenylamide; 3,6-dichlorodiphenylimide).  
T as mothproofing agent. 328P, 1176.
- 740-874.  
Pyrrole, tetraiodo-;  $(C_4HN)I_4$ . (Pyrrol tetraiodide; iodol; iodopyrrole). 110, 616, 914.
- 740-950.  
Indole;  $C_8H_7N$ . (Benzo[b]pyrrole).  
HT greenhouse red spider; MT as mothproofing agent; NT screwworms. 150, 239, 1481.
- 740-950.  
Carbazole;  $C_{12}H_9N$ . (Carbazol; diphenylimide; iminobiphenyl; iminophenyl karbazol).  
T Japanese beetle, codling moth, and as mothproofing agent. 331P, 915, 985, 1176, 1225P.
- 740-950.  
Carbazole, 1,2,3,4-tetrahydro-;  $C_{12}H_{13}N$ .  
T screwworm larvae at 0.67% and 61% T mosquito larvae. 487, 488, 944.
- 740-950-1021.  
Carbazole, 9-methyl-;  $(C_{12}H_9N)CH_3$ . (Carbazole, *N*-methyl; *N*-(9)-methylcarbazol).  
T as mothproofing agent. 873P, 1176.
- 740-951.  
Pyrrole, 1-phenyl-;  $(C_4H_4N)C_6H_5$ . (*N*-Phenyl pyrrole).  
20% T *Bombyx mori* larvae. 559.
- 740-951.  
Pyrrolidine, *d*-2-phenyl-;  $(C_4H_8N)C_6H_5$ . (*d*- $\alpha$ -Phenylpyrrolidine).  
50% T *Thermobia domestica* at 1.3%. 799, 800.
- 740-951.  
Pyrrolidine, *l*-2-phenyl-;  $(C_4H_8N)C_6H_5$ . (*l*- $\alpha$ -Phenylpyrrolidine).  
50% T *Thermobia domestica* at 1.3%. 799, 800.
- 740-951.  
Pyrrolidine, *dl*-2-phenyl-;  $(C_4H_8N)C_6H_5$ . (*dl*- $\alpha$ -Phenylpyrrolidine).  
50% T *Thermobia domestica* at 2.0%. 799, 800.
- 740-951.  
Pyrroline, 2-phenyl-;  $(C_4H_5N)C_6H_5$ . ( $\alpha$ -Phenylpyrroline).  
100% T *Thermobia domestica* and T *Aphis rumicis*. 799, 800, 1151.
- 740-951-1021.  
Pyrrolidine, *d*-2-(*p*-tolyl)-;  $(C_4H_7NH)C_6H_4CH_3$ . (*d*- $\alpha$ -Para-tolyl-pyrrolidine).  
ST *Aphis rumicis*. 1343A.
- 740-951-1021.  
Pyrrolidine, *l*-2-(*p*-tolyl)-;  $(C_4H_7NH)C_6H_4CH_3$ . (*l*- $\alpha$ -Para-tolyl-pyrrolidine).  
ST *Aphis rumicis*. 1343A.
- 740-951-1021.  
Pyrrolidine, 1-methyl-2-phenyl-;  $C_6H_5C_4H_7NCH_3$ . ( $\alpha$ -Phenyl-*N*-methylpyrrolidine).  
T *Aphis rumicis*. 261, 1151.
- 740-951-1021.  
Pyrrolidine, 1-benzyl-;  $C_6H_5NCH_2C_6H_5$ . (*N*-Benzylpyrrolidine).  
T *Aphis rumicis*. 1151.
- 740-951-1022.  
Pyrrolidine, 2-methyl-1-benzyl-;  $CH_3C_6H_4NCH_2C_6H_5$ . ( $\alpha$ -Methyl-*N*-benzylpyrrolidine).  
T *Aphis rumicis*. 1151.
- 740-951-1023.  
Pyrrolidine, 2-mesityl-;  $(CH_3)_2C_6H_3C_4H_7NH$ . (2-Mesityl- $\alpha$ -pyrrolidine).  
50% T *Thermobia domestica* at 1.0%. 799, 800.
- 740-961.  
Pyrrolidine, *d*-2-cyclohexyl-;  $C_6H_{11}C_4H_7NH$ . (*d*- $\alpha$ -Cyclohexylpyrrolidine).  
50% T *Thermobia domestica* at .95%. 799.
- 740-961.  
Pyrrolidine, *l*-2-cyclohexyl-;  $C_6H_{11}C_4H_7NH$ . (*l*- $\alpha$ -Cyclohexylpyrrolidine).  
50% T *Thermobia domestica* at .95%. 799, 800.
- 740-961.  
Pyrrolidine, *dl*-2-cyclohexyl-;  $C_6H_{11}C_4H_7NH$ . (*dl*- $\alpha$ -Cyclohexylpyrrolidine).  
50% T *Thermobia domestica* at 1.5%. 799, 800.
- 740-961.  
Pyrroline, 2-cyclohexyl-;  $C_6H_{11}C_4H_5NH$ . ( $\alpha$ -Cyclohexylpyrroline).  
T *Thermobia domestica*. 799, 800.
- 740-999-1021.  
Pyrrolidine, 1-isoamyl-3-methyl-;  $(CH_3)_2C_4H_7NC_5H_{11}$ .  
T aphids, red spider, and other sucking insects. 130P.
- 740-1001.  
Pyrrolidine, 1-butyl-;  $C_4H_9NC_4H_9$ . (*N*-Butylpyrrolidine).  
T red spider, psyllae, caterpillars, and aphids; MT *Thermobia domestica*. 121P, 130P, 799, 800.
- 740-1001-1021.  
Pyrrolidine, 2-butyl-1-methyl-;  $C_2H_5C_4H_7NCH_3$ . ( $\alpha$ -*n*-Butyl-*N*-methylpyrrolidine).  
NT *Aphis rumicis*. 261.
- 740-1001-1291.  
Pyrrolidine 1-butyl-, hydrochloride;  $C_4H_9NC_4H_9 \cdot HCl$ . (*N*-*n*-Butylpyrrolidine hydrochloride).  
T *Aphis rumicis*. 1151.
- 740-1003-1021.  
Pyrrolidine, 1-methyl-2-propyl-;  $C_3H_7C_4H_7NCH_3$ . ( $\alpha$ -*n*-Propyl-*N*-methylpyrrolidine).  
NT *Aphis rumicis*. 261.
- 740-1011.  
Pyrrole, 1-ethyl-;  $C_4H_7NC_2H_5$ .  
NT California red scale. 268.
- 740-1011-1021.  
Pyrrolidine, 2-ethyl-1-methyl-;  $C_2H_5C_4H_7NCH_3$ . ( $\alpha$ -Ethyl-*N*-methylpyrrolidine).  
NT *Aphis rumicis*. 261.
- 740-1011-1291.  
Pyrrolidine, 1-ethyl-, hydrochloride;  $C_4H_7NC_2H_5 \cdot HCl$ . (*N*-Ethylpyrrolidine hydrochloride).  
ST *Aphis rumicis*. 1151.
- 740-1021.  
Pyrrole, 1-methyl-;  $C_4H_7NCH_3$ .  
NT California red scale. 268, 1442P.
- 740-1021.  
Pyrrolidine, 1-methyl-;  $C_4H_8NCH_3$ . (*N*-Methylpyrrolidine).  
NT *Aphis rumicis*. 261.
- 740-1021.  
Pyrrolidine, 2-methyl-;  $CH_3C_4H_7NH$ . ( $\alpha$ -Methylpyrrolidine). 1442P.
- 740-1021-1291.  
Pyrrolidine, 1-methyl-, hydrochloride;  $CH_3C_4H_7NH \cdot HCl$ . (*N*-Methylpyrrolidine hydrochloride).  
ST *Aphis rumicis*. 1151.
- 740-1021-1291.  
Pyrrolidine, 2-methyl-, hydrochloride;  $CH_3C_4H_7NH \cdot HCl$ . ( $\alpha$ -Methylpyrrolidine hydrochloride).  
ST *Aphis rumicis*. 1151.
- 740-1022.  
Pyrrolidine, 1,2-dimethyl-;  $(CH_3)_2C_4H_5NH$ . ( $\alpha$ -Methyl-*N*-methylpyrrolidine).  
NT *Aphis rumicis*. 261.
- 740-1027.  
Pyrrolidines, alkyl-;  $(C_4H_8N)R$ . 1225P.
- 740-1291.  
Pyrrolidine hydrochloride;  $C_4H_8NH \cdot HCl$ .  
ST *Aphis rumicis*. 1151.
- 742-791-950-951.  
2-Benzimidazolethiol, 1-phenyl-;  $HS(C_7H_4N_2)C_6H_5$ .  
2-Mercapto-1-phenylbenzimidazole).  
20% T mosquito larvae. 487.
- 742-950.  
Benzimidazole;  $C_7H_6N_2$ .  
NT codling moth at 4%, NT greenhouse red spider

- at 1%, and NT corn borer at 4 lbs./100 gal. 1122, 1481.
- 742-950-1021.  
Benzimidazole, 2-methyl-;  $(C_6H_5N_2)CH_3$ .  
NT as mothproofing agent. 239.
- 742-952.  
Imidazole, 4,5-diphenyl-;  $(C_6H_5N_2)(C_6H_5)_2$ . (4,5-Diphenylglyoxalane).  
NT screwworms. 156.
- 742-953.  
Amarine;  $(C_6H_5N_2)(C_6H_5)_2$ . (4,5-Dihydro-2,4,5-triphenylimidazole; triphenyldihydroglyoxalane).  
NT *Tineola biselliella* and *Attagenus piceus*. 739, 1176.
- 742-1022.  
Pyrazole, 3,5-dimethyl-;  $(C_6H_5N_2)(CH_3)_2$ .  
NT *Bombyx mori* larvae. 561.
- 760-950-1113-1350.  
Phenarsine, 10,10'-oxybis[5,10-dihydro-;  $[NH-(C_6H_5)_2As]_2O$ . (Diphenylamino arsenious oxide).  
HT *Malacosoma americana*. 119.
- 770-951-1022.  
Carbonic acid, trithio-, benzyl ester;  $C_6H_5CH_2SC-(S)SH$ . (Benzyl thioxanthic acid).  
91% T codling moth larvae. 1291.
- 770-951-1022-1218.  
Carbonic acid, trithio-, benzyl ester, sodium salt;  $C_6H_5CH_2SC(S)SNa$ . (Sodium salt of benzylthioxanthic acid).  
66% T mosquito larvae. 487.
- 770-952-1012.  
Disulphide, bis(benzylmercaptothionoformyl)-;  $[C_6H_5CH(SH)C(S)S]_2$ .  
NT mosquito larvae. 487.
- 770-952-1023.  
Carbonic acid, trithio-, dibenzyl ester;  $C_6H_5CH_2SC-(S)SCH_2C_6H_5$ . (Benzyl ester of benzylthioxanthic acid).  
86% T codling moth larvae. 1291.
- 770-1023.  
Carbonic acid, trithio-, dimethyl ester;  $CH_3SC(S)SCH_3$ . (Dimethyl-trithiocarbonate).  
20% T rice weevil. 1178, 1180.
- 770-1027-1033.  
Carbonic acid, trithio-, alkene esters, CU;  $RSC-(S)SR$ . (Alkene trithiocarbonates). 56P.
- 781-733-975-1027-1030.  
Sulfides, alkylenearyl-, CU.  
Unsaturated organic sulfides and polysulfides possessing an olefinic linkage between two carbon atoms in an alkylene chain linked to a cyclic nucleus and the sulfur element.  
T flies. 1489P.
- 781-851-951-1022.  
Sulfide, 4-( $\alpha$ -chlorotolyl) methyl;  $CH_3SC_6H_4CH_2Cl$ . (1-Methylthio-4-chloro-methyl-benzene).  
T aphids, plant lice on cucumbers at 0.5% and T plant lice on garden roses at 0.125%. 1386P.
- 781-924-1021.  
Sulfide, 2-naphthyl methyl-;  $CH_3SC_{10}H_7$ . (Thio-2-naphthylmethyl ether).  
97% T *Culex quinquefasciatus* larvae and T *Cochliomyia americana* C. and P. at m.l.c. at 0.17%. 187, 944.
- 781-951-1011-1021.  
Sulfide, ethyl *p*-tolyl-;  $C_6H_4SC_2H_5CH_3$ .  
42-98% T *Lucilia sericata* larvae. 723.
- 781-951-1011-1021.  
Sulfide, benzyl ethyl;  $C_6H_5SCH_2C_2H_5$ .  
95-100% T *Lucilia sericata* larvae. 723.
- 781-952.  
Phenyl sulfide;  $C_6H_5SC_6H_5$ . (Diphenyl sulfide; dibenzothiophene).  
HT greenhouse red spider; T mosquito larvae. 172, 488, 1481.
- 781-952-1008.  
Acetone diphenyl mercaptole;  $(CH_3)_2C(SC_6H_5)_2$ .  
NT *Sitophilus oryzae*, *Sitophilus granarius*, and *Tribolium confusum*, and *Plodia* larvae. 1042, 1178.
- 781-958-1011.  
Ethane, 1,2-bis(phenylthio)-;  $C_6H_5SCH_2CH_2SC_6H_5$ . (Ethylene glycol, dithio-bisphenyl ether).  
18% T *Culiseta* mosquitoes larvae. 172, 1178.
- 781-952-1022.  
o-Tolyl sulfide;  $(CH_3C_6H_4)_2S$ . (2,2'-Dimethyl diphenyl sulfide).  
MT greenhouse red spider at 2%; NT codling moth at 4%. 1481.
- 781-952-1022.  
*p*-Tolyl sulfide;  $(CH_3C_6H_4)_2S$ .  
71-100% T *Lucilia sericata* larvae. 723.
- 781-952-1022.  
Sulphide, benzyl tolyl-, CU;  $CH_3C_6H_4SCH_2C_6H_5$ .  
T bird lice and dog fleas. 324P, 381P, 386P, 388P, 1178.
- 781-952-1022.  
Benzyl sulfide;  $(C_6H_5CH_2)_2S$ . (Dibenzyl sulfide).  
T screwworms at 0.33-0.67%. 156.
- 781-1000.  
Amyl sulfide;  $(C_5H_{11})_2S$ .  
60% T *Lucilia sericata* larvae. 723.
- 781-1001-1011.  
Sulfide, butyl ethyl-;  $C_4H_9SC_2H_5$ . (Ethyl *n*-butyl sulfide).  
55% T *Lucilia sericata* larvae. 723.
- 781-1002.  
Butyl sulphide;  $(C_4H_9)_2S$ . (Dibutyl sulphide; butylthiobutane).  
T cockroaches and 62% T *Lucilia sericata*; NT *Chrysomphalus aurantii*. 268, 723, 900P, 1178, 1276.
- 781-1002.  
Isobutyl sulphide;  $[(CH_3)_2CHCH_2]_2S$ . (Disobutyl sulfide; 2-methyl-1-1-( $\beta$ -methylpropylthiopropene).  
T *Sitophilus oryzae* at 334 mg./l.; NT *Chrysomphalus aurantii*. 268, 1178, 1180.
- 781-1002-1033.  
Sulfide, bis(2-methylpropenyl)-;  $[CH_2:C(CH_3)CH_2]_2S$ . (Methallyl sulfide).  
T flies. 1489 P.
- 781-1003-1011.  
Sulphide, ethyl propyl;  $C_2H_5SC_2H_5$ . 324P, 1178.
- 781-1003-1012.  
Acetone diethyl mercaptole;  $(CH_3)_2C(SC_2H_5)_2$ . (Mercaptol).  
NT *Sitophilus oryzae*. 1178, 1180.
- 781-1004.  
Propyl sulphide;  $(C_3H_7)_2S$ . (1-Propylthiopropene; di-*n*-propyl sulfide).  
T *Sitophilus oryzae*; NT California red scale. 268, 1178, 1180.
- 781-1004-1033.  
Allyl sulfide;  $(CH_2:CHCH_2)_2S$ . (3-(2-Propenylthio) propene; thioallyl ether; diallyl sulfide; allyl thioether; 2-propenyl sulfide).  
60% T *Sitophilus oryzae*; NT *Chrysomphalus aurantii*. 268, 1178, 1180.
- 781-1011-1021.  
Sulfide, ethyl methyl;  $CH_3SC_2H_5$ . (Methyl thioethane).  
47-91% T *Lucilia sericata* larvae. 723.
- 781-1012.  
Ethyl sulphide;  $(C_2H_5)_2S$ . (Ethyl thioethane; diethyl sulfide).  
T *Sitophilus oryzae* m.l.c. is 419 mg./l. and T *Lucilia cuprina* larvae; NT *Chrysomphalus aurantii*. 268, 849, 1178, 1180.
- 781-1022.  
Methyl sulphide;  $(CH_3)_2S$ . (Methylthiomethane; dimethyl sulfide).  
100% T *Tribolium confusum* and T *Sitophilus oryzae*; MT *Chrysomphalus aurantii*. 268, 1042, 1178, 1180.
- 781-1027-1030.  
Sulfides, alkylene. 392P, 1432.
- 781-1045.  
Sulfide derivatives. 112, 745P, 1139P, 1389P, 1432.
- 782-952.  
Phenyl disulfide;  $C_6H_5SSC_6H_5$ . (Diphenyl disulfide; phenyldithiobenzene; diphenyl disulphide).  
60-100% T *Lucilia sericata* and 60% T *Culiseta* mosquito larvae at 1-10,000, and T *Puccinia graminis*; HT codling moth larvae. 156, 172, 723, 1178, 1291.
- 782-952-1022.  
Benzyl disulfide;  $C_6H_5CH_2SSCH_2C_6H_5$ . (Dibenzyl disulfide;  $\alpha$ -(benzylthio) toluene).  
23-49% T *Lucilia sericata* larvae; NT mosquito larvae. 172, 723, 1178.

- 782-952-1022.  
p-Tolyl disulfide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SSC}_6\text{H}_4\text{CH}_3$ .  
93-100% T *Lucilia sericata* larvae. 723.
- 782-1000.  
Amyl disulfide;  $\text{C}_5\text{H}_{11}\text{SSC}_5\text{H}_{11}$ .  
NT *Chrysomphalus aurantii*. 268, 1178.
- 782-1002.  
Butyl disulfide;  $\text{C}_4\text{H}_9\text{SSC}_4\text{H}_9$ . (1-Butyldithiobutane).  
80-100% T *Lucilia sericata* larvae. 723.
- 782-1002-1033.  
Disulfide, bis(2-methylpropenyl)-;  $[\text{CH}_3\text{C}(\text{CH}_3)\text{CH}_2\text{S}]_2$ . (Methallyl disulfide).  
T flies. 1489P.
- 782-1012.  
Ethyl disulfide;  $\text{C}_2\text{H}_5\text{SSC}_2\text{H}_5$ . (Ethyldithioethane; diethyl disulfide).  
100% T *Sitophilus oryza* and T *Lucilia cuprina* larvae. 268, 849, 1178, 1180.
- 782-1012-1413?  
Disulfide, bis(diethylthionophosphono)-;  $(\text{C}_2\text{H}_5)_2\text{S}-\text{P}(\text{O})_2\text{HSSHP}(\text{O})_2\text{S}(\text{C}_2\text{H}_5)_2$ .  
25% T mosquito larvae. 487.
- 782-1021.  
Carbon disulfide—see 1123-1302.
- 782-1022.  
Methyl disulfide;  $\text{CH}_3\text{SSCH}_3$ . (Methyldithiomethane; dimethyl disulfide).  
100% T *Sitophilus oryza*; NT *Chrysomphalus aurantii*. 268, 1178, 1180.
- 782-1027.  
Disulfides. 187, 1135P, 1178, 1432.
- 791-841-951.  
Benzenethiol, p-bromo-;  $\text{BrC}_6\text{H}_4\text{SH}$ . (p-Bromothio-phenol).  
T mosquito larvae. 172.
- 791-841-1011.  
Ethanethiol, 2-bromo-;  $\text{BrCH}_2\text{CH}_2\text{SH}$ . (Ethylene thiobromhydrin). 241P.
- 791-851-1011.  
Ethanethiol, 2-chloro-;  $\text{ClCH}_2\text{CH}_2\text{SH}$ . 55P.
- 791-881-1027-1030.  
Alkenethiol, halogen substituted. (Alkene halogen thiol containing from 2 to 6 carbon atoms). 241P.
- 791-924.  
2-Naphthalenethiol;  $\text{C}_{10}\text{H}_7\text{SH}$ . (2-Naphthylmercaptan; thio- $\beta$ -naphthol).  
HT *Aphis rumicis* and mosquito larvae; 72% T codling moth larvae; NT *Bombyx mori* larvae. 172, 559, 1001, 1183, 1178, 1291, 1432.
- 791-951.  
Benzenethiol;  $\text{C}_6\text{H}_5\text{SH}$ . (Phenyl mercaptan; thio-phenol).  
T *Leptinotarsa decemlineata* and *Lucilia sericata*; ST *Hippodamia convergens*; NT *Chrysomphalus aurantii*. 156, 268, 723, 1009, 1110, 1178.
- 791-951-1021.  
m-Toluenethiol;  $\text{CH}_3\text{C}_6\text{H}_4\text{SH}$ . (m-Thiocresol; m-tolyl mercaptan).  
53-100% T *Lucilia sericata* larvae. 723.
- 791-951-1021.  
p-Toluenethiol;  $\text{CH}_3\text{C}_6\text{H}_4\text{SH}$ . (o-Thiocresol; o-tolyl mercaptan).  
95-100% T *Lucilia sericata* larvae; ST *Chrysomphalus aurantii*. 156, 268, 723, 1178.
- 791-951-1021.  
p-Toluenethiol;  $\text{CH}_3\text{C}_6\text{H}_4\text{SH}$ . (p-Tolyl mercaptan; p-thiocresol; thiocresol).  
100% T culicine mosquito larvae; NT Colorado potato beetle and Japanese beetle. 156, 172, 606, 723, 1178, 1432.
- 791-951-1021.  
Toluenethiol, CU;  $\text{OH}_2\text{C}_6\text{H}_4\text{SH}$ . (Tolyl mercaptan; thiocresol, unspecified).  
Used to increase floatability on water of Paris green for killing Anopheline larvae. 1027, 1178.
- 791-951-1021.  
a-Toluenethiol;  $\text{C}_6\text{H}_5\text{CH}_2\text{SH}$ . (Benzyl mercaptan; thiobenzyl alcohol; benzyl hydrosulfide).  
76-100% T *Lucilia sericata* larvae. 723.
- 791-989.  
1-Dodecanethiol;  $\text{C}_{12}\text{H}_{25}\text{SH}$ . (Lauryl mercaptan). 563P, 1432.
- 791-999.  
1-Butanethiol, 3-methyl-;  $(\text{CH}_3)_2\text{CH}(\text{CH}_2)_2\text{SH}$ . (Isobutyl mercaptan).  
T *Sitophilus oryza*; NT *Chrysomphalus aurantii*. 268, 1178, 1180.
- 791-1001.  
1-Butanethiol;  $\text{C}_4\text{H}_9\text{SH}$ . (n-Butyl mercaptan).  
HT *Sitophilus oryza*, *Tribolium confusum*, *Sitophilus granarius*, and larvae of *Plodia interpunctella*; MT *Musca domestica*, *Lucilia* spp., and *Phormia regina*; ST *Chrysomphalus aurantii* and wireworms. 250, 268, 819, 846, 1042, 1178, 1180.
- 791-1001.  
1-Propanethiol, 2-methyl-;  $(\text{CH}_3)_2\text{CHCH}_2\text{SH}$ . (Isobutyl mercaptan).  
T wireworms and *Chrysomphalus aurantii*; ST Colorado potato beetle and Mexican bean beetle. 268, 606, 846, 1432.
- 791-1003.  
1-Propanethiol;  $\text{C}_3\text{H}_7\text{SH}$ . (n-Propyl mercaptan).  
T *Sitophilus oryza*; ST *Lucilia sericata* larvae; NT *Chrysomphalus aurantii*. 268, 723, 1178, 1180, 1229.
- 791-1003.  
2-Propanethiol;  $(\text{CH}_3)_2\text{CHSH}$ . (Isopropyl mercaptan).  
T *Sitophilus oryza*; NT *Chrysomphalus aurantii*. 268, 1178, 1180.
- 791-1011.  
Ethanethiol;  $\text{C}_2\text{H}_5\text{SH}$ . (Ethyl mercaptan).  
T *Sitophilus oryza*, *S. granarius*, *Tribolium confusum*, and *Plodia interpunctella*; NT *Tetranychus telarius*, adult white flies, *Leptinotarsa decemlineata*, and *Chrysomphalus aurantii*. 268, 819, 1001, 1009, 1042, 1178, 1180, 1340.
- 791-1021.  
Methanethiol;  $\text{CH}_3\text{SH}$ . (Methyl mercaptan).  
NT *Bombyx mori* and Japanese beetle. 496, 559, 1432.
- 791-1045.  
Mercaptans. 866.
- 796-820-950.  
10-Thioxanthemethione;  $\text{S}:(\text{C}_{10}\text{H}_7\text{S})$ . (Thioxanthione).  
ST greenhouse red spider at 2%; NT southern army worm at 4%. 1451.
- Carbon disulfide—see 1123-1392.
- 801-821-853-950-1023-1389.  
Thianthronium methyl sulfate, 2,7-dichloro-5-methyl-;  $\text{CH}_3(\text{C}_6\text{H}_3\text{Cl}_2)_2\text{SO}_3\text{CH}_3$ . (2,7-Dichloro-5-methylthianthrene sulfonium methoxysulfate). 526P.
- 801-821-950-951-1291.  
Thianthronium chloride, 5-phenyl-;  $\text{Cl}(\text{C}_6\text{H}_4\text{S}_2)_2\text{C}_6\text{H}_5$ . (5-Phenylthianthrene sulfonium chloride). 526P.
- 801-821-950-1024-1389.  
Thianthronium methyl sulfate, 2,6-dimethyl-;  $(\text{C}_6\text{H}_4\text{S}_2)_2(\text{CH}_3)_2\text{SO}_3\text{CH}_3$ . (2,6-Dimethyl-8-methylthianthrene sulfonium methoxysulfate). 526P.
- 801-951-1003-1023-1030-1389.  
Sulfonium methyl sulfate, allylbensylmethyl-;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{S}(\text{CH}_3)(\text{CH}_2\text{C}_6\text{H}_5)\text{SO}_3\text{CH}_3$ . (Methylallylbensyl sulfonium methoxysulfate). 526P.
- 801-953-1023-1291.  
Sulfonium chloride, tribenzyl-;  $(\text{C}_6\text{H}_5\text{CH}_2)_3\text{SCl}$ . 526P.
- 801-953-1291.  
Sulfonium chloride, triphenyl-;  $(\text{C}_6\text{H}_5)_3\text{SCl}$ . 526P.
- 801-985-999-1022-1389.  
Sulfonium methyl sulfate, amylhexadecylmethyl-;  $\text{C}_{15}\text{H}_{33}(\text{CH}_2)(\text{C}_6\text{H}_{13})\text{SCH}_2\text{SO}_3$ . (Hexadecylamylmethyl-sulfonium methoxysulfate). 526P.
- 820-950.  
Thioxanthene;  $\text{C}_{12}\text{H}_{10}\text{S}$ .  
78% T codling moth larvae and T mosquito larvae. 487, 1291.
- 821-950.  
Thianthrene;  $\text{C}_{12}\text{H}_8\text{S}_2$ . (Dibenzo-p-dithiin; diphenylene disulfide).  
HT greenhouse red spider; 50% T codling moth larvae; ST as mothproofing agent; NT southern army worm, corn borer, and silkworm. 289, 487, 559, 1120, 1291, 1432, 1451.
- 831-950.  
Dibenzo [a,e]-o-dithiin;  $\text{C}_{12}\text{H}_8\text{S}_2$ .  
20% T mosquito larvae. 487.
- 831-950-1023.  
Thianthrene, 3,7-dimethyl-;  $(\text{C}_{12}\text{H}_8\text{S}_2)(\text{CH}_3)_2$ .  
NT culicine mosquito larvae and corn borer. 172, 1120, 1178.

- 821-951.  
1,3-Dithiane, 2-phenyl-;  $(C_{12}H_7S_2)C_6H_5$ .  
100% T culicine mosquito larvae. 172, 1178.
- 821-952.  
1,3-Dithiane, 2,2-diphenyl-;  $(C_{18}H_{15}S_2)(C_6H_5)_2$ .  
10% T culicine mosquito larvae. 172, 1178.
822.  
s-Trithiane;  $(CH_2S)_3$ . (Trithiomethylene; trithioformaldehyde).  
51% T codling moth larvae; NT *Melanoplus m. mexicanus*, mosquito larvae, and *Bombyx mori* larvae. 487, 559, 1150, 1291.
- 822-953.  
s-Trithiane, 2,4,6-triphenyl-, (lower melting);  $[SCH-(C_6H_5)]_3$ ? (Formula given by author as  $C_7H_5S$ . This is probably incorrect). ( $\alpha$ -Thiobenzaldehyde).  
NT mosquito larvae. 487.
- 822-953.  
s-Trithiane, 2,4,6-triphenyl (higher melting);  $[SCH-(C_6H_5)]_3$ . ( $\beta$ -Thiobenzaldehyde).  
NT mosquito larvae. 487.
825.  
Thiophene;  $C_4H_4S$ . (Thiofuran).  
ST *Musca domestica*; NT *Chrysomphalus aurantii*.  
268, 487, 1001, 1178.
- 825-950.  
Dibenzothiophene;  $C_{12}H_8S$ .  
100% T culicine mosquito larvae and 26% T codling moth larvae. 157, 172, 487, 1178, 1291.
826.  
1,3-Dithiole;  $C_3H_4S_2$ .  
NT culicine mosquito larvae. 172, 1178.
826.  
Trimethylene disulfide;  $C_3H_6S_2$ .  
NT culicine mosquito larvae. 172.
830.  
Thiethane;  $C_2H_4S$ . (Trimethylene sulfide).  
Fly spray. 112, 1389P.
834.  
2,2-Bithiirane;  $(C_2H_4S)_2$ . (Butadiene disulfide).  
Fly spray. 112, 1389P.
834.  
Thiirane;  $C_2H_4S$ . (Ethylene sulfide).  
Fly spray. 112, 1389P.
- 834-851.  
Thiirane, 2-chloro-;  $(C_2H_3S)Cl$ . (Monochloroethylene sulfide).  
Fly spray. 112, 1389P.
- 834-950.  
Thiirane, 2,3-butylene-;  $C_6H_{10}S$ . (Cyclohexene sulfide).  
Fly spray. 112, 1389P.
- 834-951.  
Thiirane, 2-phenyl-;  $(C_2H_3S)C_6H_5$ . (Styrene sulfide).  
Fly spray. 112, 1389P.
- 834-1003.  
Thiirane, 2-n-propyl-;  $(C_2H_3S)C_3H_7$ . ( $\alpha$ -Amylene sulfide).  
Fly spray. 112, 1389P.
- 834-1003.  
Thiirane, 2-isopropyl-;  $(C_2H_3S)C_3H_7$ . (Isopropyl ethylene sulfide).  
Fly spray. 112, 1389P.
- 834-1003-1030.  
Thiirane, 2-isopropenyl-;  $(C_2H_3S)C_3H_4$ . (Thiirane, 2-(1-methylvinyl)-; isoprene monosulfide).  
Fly spray. 112, 1389P.
- 834-1011-1021.  
Thiirane, 2-ethyl-2-methyl-;  $CH_3(C_2H_5)C_2H_5$ . ( $\alpha$ -Butylene sulfide).  
Fly spray. 112, 1389P.
- 834-1011-1021.  
Thiirane, 2,3-dimethyl-;  $(C_2H_3S)(CH_3)_2$ . (sym-methyl ethyl ethylene sulfide).  
Fly spray. 112, 1389P.
- 834-1011-1030.  
Thiirane, 2-vinyl-;  $(C_2H_3S)CH:CH_2$ . (Butadiene monosulfide).  
Fly spray. 112, 1389P.
- 834-1021.  
Thiirane, 2-methyl-;  $(C_2H_3S)CH_3$ . ( $\alpha$ -Propylene sulfide).  
Fly spray. 112, 1389P.
- 834-1022.  
Thiirane, 2,2-dimethyl-;  $(C_2H_3S)(CH_3)_2$ . (Isobutylene sulfide).  
Fly spray. 112, 1389P.
- ene sulfide).  
Fly spray. 112, 1389P.
- 834-1022.  
Thiirane, 2,3-dimethyl-;  $(C_2H_3S)(CH_3)_2$ . (sym-Dimethyl ethylene sulfide).  
Fly spray. 112, 1389P.
- 834-1023.  
Thiirane, 2,2,3-trimethyl-;  $(C_2H_3S)(CH_3)_3$ . (Trimethyl ethylene sulfide).  
Fly spray. 112, 1389P.
- 834-1024.  
Thiirane, 2,2,3,3-tetramethyl-;  $(C_2S)(CH_3)_4$ . (Tetramethyl ethylene sulfide).  
Fly spray. 112, 1389P.
- 841-851-951.  
Benzene, 1-bromo-4-chloro-;  $BrC_6H_4Cl$ . (p-Chlorobromobenzene).  
T screwworms; m.l.c. of 0.67%. 156.
- 841-851-951-1021.  
Toluene, o-bromo- $\alpha$ -chloro-;  $BrC_6H_4CH_3Cl$ . (o-Bromobenzyl chloride).  
NT red scale. 268.
- 841-851-1003.  
Propane, 1-bromo-3-chloro-;  $BrCH_2CH_2CH_2Cl$ . (Trimethylene chlorobromide).  
NT red scale. 268.
- 841-851-1011.  
Ethane, 1-bromo-2-chloro-;  $BrCH_2CH_2Cl$ . (Ethylene chlorobromide).  
100% T rice weevil. 1180.
- 841-851-951.  
Benzene, 1-bromo-4-fluoro-;  $BrC_6H_4F$ . (p-Fluorobromobenzene).  
100% T codling moth larvae; ST red scale. 268, 1291.
- 841-871-951.  
Benzene, 1-bromo-4-iodo-;  $BrC_6H_4I$ . (p-Bromiodobenzene).  
T screwworms; m.l.c. of 0.17-0.33%. 110, 156, 487.
- 841-910.  
Phenanthrene, 9-bromo-;  $C_{14}H_9Br$ .  
NT houseflies. 579.
- 841-912.  
Acenaphthene, 3-bromo-;  $C_{12}H_7Br$ .  
T screwworms; m.l.c. of 0.67%. 944.
- 841-924.  
Naphthalene, 1-bromo-;  $C_{10}H_7Br$ .  $\alpha$ -Bromonaphthalene).  
90% T houseflies and T clothes moth. 579, 913P, 1179.
- 841-924.  
Naphthalene, 2-bromo-;  $C_{10}H_7Br$ . ( $\beta$ -Bromonaphthalene).  
NT codling moth. 930.
- 841-924.  
Naphthalene, bromo-, CU;  $C_{10}H_7Br$ .  
T as mothproofing agent. 843P, 1176.
- 841-951.  
Benzene, bromo-;  $C_6H_5Br$ . (Phenyl bromide).  
95% T houseflies and T Japanese beetle; NT screwworms. 156, 494, 579.
- 841-951-1003-1021.  
Cymene, 2-bromo-;  $CH_3C_6H_4BrC_2H_5$ . (2-Bromo-4-isopropyl-1-methylbenzene).  
NT red scale. 268.
- 841-951-1011.  
Ethane, 1-bromo-1-phenyl-;  $CH_3CHBrC_6H_5$ .  $\alpha$ -Bromoethylbenzene).  
NT red scale. 268.
- 841-951-1011-1030.  
Styrene,  $\alpha$ -bromo-;  $CH_3:CHBrC_6H_5$ . (Bromostyrol).  
NT wireworms. 846.
- 841-951-1011-1030.  
Styrene,  $\beta$ -bromo-;  $BrCH:CHC_6H_5$ .  
ST oriental peach moth. 1094.
- 841-951-1021.  
Toluene, m-bromo-;  $BrC_6H_4CH_3$ . (m-Tolyl bromide).  
NT screwworms and red scale. 156, 268.
- 841-951-1021.  
Toluene, o-bromo-;  $BrC_6H_4CH_3$ . (o-Tolyl bromide).  
T *Leptinotarsa decemlineata* and houseflies; NT red scale and screwworms. 156, 268, 1002, 1009.
- 841-951-1021.  
Toluene, p-bromo-;  $BrC_6H_4CH_3$ . (p-Tolyl bromide).

- T houseflies; NT screwworms and red scale. 156, 268, 1002.
- 841-951-1021.  
Toluene,  $\alpha$ -bromo-;  $C_6H_5CH_2Br$ . (Benzyl bromide).  
NT red scale. 268.
- 841-951-1022.  
*p*-Xylene,  $\alpha$ -bromo-;  $CH_3C_6H_4CH_2Br$ . (Xylin bromide).  
NT *Hippodamia convergens*. 1110.
- 841-951-1022.  
Xylene, bromo-, CU;  $BrC_6H_4(CH_3)_2$ .  
T *Musca domestica*. 1002.
- 841-952.  
Biphenyl, 2-bromo-;  $C_6H_5C_6H_4Br$ . (*o*-Bromobiphenyl).  
91% T codling moth larvae; ST red scale. 268, 1291.
- 841-952.  
Biphenyl, 4-bromo-;  $C_6H_5C_6H_4Br$ . (*p*-Bromobiphenyl).  
HT screwworms; m.l.c. of 0.05-0.08%; 51% T mosquito larvae. 156, 487, 1291.
- 841-961.  
Cyclohexane, bromo-;  $C_6H_{11}Br$ . (Cyclohexyl bromide).  
NT houseflies and red scale. 268, 579.
- 841-999.  
Dodecane, 1-bromo-;  $C_{12}H_{25}Br$ . (Lauryl bromide; dodecyl bromide). 107P, 112, 593P.
- 841-993.  
Octane, 2-bromo-;  $CH_3CHBr(CH_2)_6CH_3$ . (*l*-sec-n-Octyl bromide).  
NT red scale. 268.
- 841-999.  
Pentane, 1-bromo-;  $C_5H_{11}Br$ . (*n*-Amyl bromide).  
NT red scale. 268.
- 841-999.  
Butane, 1-bromo-3-methyl-;  $(CH_3)_2CHCH_2CH_2Br$ . (Isoamyl bromide).  
100% T rice weevil; ST red scale. 268, 1180.
- 841-1001.  
Butane, 1-bromo-;  $C_4H_9Br$ . (*n*-Butyl bromide).  
100% T rice weevil; ST red scale. 268, 1180.
- 841-1001.  
Propane, 2-bromo-2-methyl-;  $(CH_3)_2CHCH_2Br$ . (Isobutyl bromide).  
100% T rice weevil; ST red scale. 268, 1180.
- 841-1001.  
Butane, 2-bromo-;  $CH_3CHBrCH_2CH_3$ . (*sec*-Butyl bromide; methyl ethyl bromomethane).  
100% T rice weevil; ST red scale. 268, 1180.
- 841-1001.  
Propane, 2-bromo-2-methyl-;  $(CH_3)_2CBr$ . (*tert*-Butyl bromide; trimethyl bromomethane).  
100% T rice weevil; ST red scale and wireworms. 268, 846, 1180.
- 841-1001-1030.  
2-Butene, 1-bromo-;  $CH_3BrCH:CHCH_3$ .  $\alpha$ -Butylene bromide).  
ST *Sitophilus oryza*. 1180.
- 841-1001-1030.  
2-Butene, 2-bromo-;  $CH_3CBr:CHCH_3$ . ( $\beta$ -Butylene bromide).  
ST *Sitophilus oryza*. 1180.
- 841-1001-1030.  
Propene, 1-bromo-2-methyl-;  $(CH_3)_2C:CHBr$ . (Isobutylene bromide).  
T *Sitophilus oryza*. 1180.
- 841-1001-1030.  
Propene, 3-bromo-2-methyl-;  $CH_3:C(CH_3)CH_2Br$ . (Methyl allyl bromide).  
95% T *Tribolium confusum*. 1155.
- 841-1003.  
Propane, 1-bromo-;  $C_3H_7Br$ . (*n*-Propyl bromide).  
100% T rice weevil; NT red scale. 268, 1180.
- 841-1003.  
Propane, 2-bromo-;  $(CH_3)_2CHBr$ . (Isopropyl bromide).  
100% T rice weevil; NT red scale. 268, 1180.
- 841-1003-1030.  
Propene, 3-bromo-;  $CH_3:CHCH_2Br$ . (Allyl bromide).  
100% T rice weevil; ST houseflies, red scale, and wireworms. 268, 579, 846, 1180.
- 841-1011.  
Ethane, bromo-;  $C_2H_5Br$ . (Ethyl bromide).  
100% T rice weevil; ST red scale and codling moth. 268, 555, 1180.
- 841-1021.  
Methane, bromo-;  $CH_3Br$ . (Methyl bromide).  
T *Attagenus piceus* and many other insects; ST *Plodia interpunctella* and red scale; NT houseflies. 13, 268, 568, 579, 858, 1143, 1155.
- 842-924.  
Naphthalene, dibromo-, CU;  $C_{10}H_8Br_2$ .  
T codling moth; ST Japanese beetle. 494, 915.
- 842-951.  
Benzene, *m*-dibromo-;  $C_6H_4Br_2$ . (1,3-Dibromobenzene).  
T codling moth larvae. 1292.
- 842-951.  
Benzene, *o*-dibromo-;  $C_6H_4Br_2$ . (1,2-Dibromobenzene).  
NT codling moth larvae. 1292.
- 842-951.  
Benzene, *p*-dibromo-;  $C_6H_4Br_2$ .  
ST codling moth larvae. 156, 930, 1002, 1292.
- 842-951-1011.  
Ethane, 1,1-dibromo-1-phenyl-;  $C_6H_5CBr_2CH_3$ . ( $\alpha$ -Dibromoethylbenzene). 1235P.
- 842-951-1011.  
Ethane, 1,2-dibromo-1-phenyl-;  $C_6H_5CHBrCH_2Br$ . ( $\alpha,\beta$ -Dibromoethylbenzene; styrene dibromide).  
T southern beet webworm, Hawaiian beet webworm, termites, cabbage aphid, greenhouse leaf tier, diamondback moth, cross striped cabbage worm, southern army worm, banded cucumber beetle, and houseflies; NT as mothproofing agent. 239, 579, 1312.
- 842-952.  
Biphenyl, 4,4'-dibromo-;  $BrC_6H_4C_6H_4Br$ .  
T codling moth; NT mosquito larvae and screwworms. 156, 487, 1291.
- 842-999.  
Pentane, 1,5-dibromo-;  $Br(CH_2)_5Br$ . (Pentamethylene bromide).  
ST codling moth. 915.
- 842-1001.  
Butane, 1,2-dibromo-;  $CH_3CH_2CHBrCH_2Br$ . ( $\alpha$ -Butylene bromide).  
80% T rice weevil. 1180.
- 842-1001.  
Propane, 1,2-dibromo-2-methyl-;  $CH_3CBr(CH_3)CH_2Br$ . (Isobutylene bromide).  
100% T rice weevil. 1180.
- 842-1003.  
Propane, 1,2-dibromo-;  $CH_3CHBrCH_2Br$ . (Propylene bromide; propylene dibromide).  
100% T rice weevil; NT *Chrysomphalus aurantii*. 268, 1180.
- 842-1003.  
Propane, 1,3-dibromo-;  $BrCH_2CH_2CH_2Br$ . (Trimethylene bromide; trimethylene dibromide).  
65% T houseflies and T *Leptinotarsa decemlineata*. 579, 1009.
- 842-1011.  
Ethane, 1,1-dibromo-;  $CH_3CHBr_2$ . (Ethylidene bromide; ethylidene dibromide).  
100% T rice weevil; ST red scale. 268, 1180.
- 842-1011.  
Ethane, 1,2-dibromo-;  $CH_3BrCH_2Br$ . (Ethylene bromide; ethylene dibromide).  
T rice weevil, clothes moth, and 55% T houseflies; ST red scale. 268, 421P, 579, 633P, 1175, 1180.
- 842-1011-1030.  
Ethylene, 1,2-dibromo-;  $BrCH:CHBr$ . ( $\alpha,\beta$ -Dibromoethylene; *sym*-dibromoethylene; *acetylene* dibromide).  
T *Lucilia cuprina* larvae and 5% T houseflies; NT *Chrysomphalus aurantii*. 579, 849, 1180.
- 842-1021.  
Methane, dibromo-;  $CH_2Br_2$ . (Methylene bromide).  
100% T rice weevil; ST red scale. 268, 1180.
- 843-953-1111.  
Stibine, tri(bromophenyl)-, CU;  $(BrC_6H_4)_3Sb$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 843-1001.  
Butane, 1,2,3-tribromo-;  $CH_3CHBrCHBrCH_2Br$ .  
HT houseflies; NT rice weevil. 579, 1180.

- 843-1011.  
Ethane, 1,1,2-tribromo-;  $\text{CH}_2\text{BrCHBr}_2$ . (Vinyl tribromide).  
100% T houseflies. 579.
- 843-1031.  
Bromoform;  $\text{CHBr}_3$ . (Tribromomethane).  
100% T rice weevil, T houseflies, and *Chrysomphalus aurantii*. 268, 579, 1180.
- 844-900.  
Methane, tetrakis(bromomethyl)-;  $\text{C}(\text{CH}_2\text{Br})_4$ . (Pentaterythryl bromide).  
T southern beet webworm, Hawaiian beet webworm, melon worm, termites, cabbage looper, southern army worm, cross striped cabbage worm, and as mothproofing agent. 27, 239, 1206, 1312.
- 844-1011.  
Ethane, 1,1,2,2-tetrabromo-;  $\text{CHBr}_2\text{CHBr}_2$ . (sym-Tetrabromomethane; acetylene tetrabromide).  
T *Lucilia cuprina* larvae and 95% T houseflies; ST screwworms; NT *Sitophilus oryzae*. 156, 579, 846, 1180.
- 844-1021.  
Carbon tetrabromide;  $\text{CBr}_4$ . (Tetrabromomethane).  
T grain weevils. 810P, 1180.
- 851-861-951.  
Benzene, 1-chloro-2-fluoro-;  $\text{ClC}_6\text{H}_4\text{F}$ . (o-Fluorochlorobenzene).  
91% T codling moth larvae; ST red scale. 268, 1291.
- 851-871-951.  
Benzene, 1-chloro-4-iodo-;  $\text{ClC}_6\text{H}_4\text{I}$ . (p-Chloriodobenzene).  
98% T mosquito larvae at 4-100,000; NT codling moth larvae at 4 lbs./100 gal. 110, 487, 1291.
- 851-910.  
Phenanthrene, chloro-, OU;  $\text{C}_{14}\text{H}_9\text{Cl}$ . (Monochlorophenanthrene).  
ST *Pieris rapae*. 635.
- 851-912.  
Fluorene, 2-chloro-;  $\text{C}_{13}\text{H}_9\text{Cl}$ .  
T rice weevil, melon worm, mosquito larvae, diamondback moth, Colorado potato beetle, American cockroach, European corn borer, and houseflies; MT southern army worm, southern beet webworm, and Hawaiian beet webworm. 579, 1120, 1121, 1312.
- 851-912.  
Fluorene, 9-chloro-;  $\text{C}_{13}\text{H}_9\text{Cl}$ .  
NT *Cochliomyia americana*. 944.
- 851-912.  
Acenaphthene, 3-chloro-;  $\text{C}_{12}\text{H}_9\text{Cl}$ .  
ET *Culex quinquefasciatus*; 25% T houseflies. 157, 579.
- 851-924.  
Naphthalene, 1-chloro-;  $\text{C}_{10}\text{H}_7\text{Cl}$ . (α-Chloronaphthalene).  
100% T *Aphis rumicis*, T screwworms, houseflies, and codling moth. 579, 703, 915, 944, 1376, 1377.
- 851-924.  
Naphthalene, 2-chloro-;  $\text{C}_{10}\text{H}_7\text{Cl}$ . (β-Chloronaphthalene).  
NT codling moth. 915.
- 851-924.  
Naphthalene, chloro-, OU;  $\text{C}_{10}\text{H}_7\text{Cl}$ . (Monochloronaphthalene).  
T clothes moth and T termites at 1-4000; NT codling moth. 704, 842P, 843P, 913P, 930, 1176, 1179.
- 851-951.  
Benzene, chloro-;  $\text{C}_6\text{H}_5\text{Cl}$ . (Phenyl chloride).  
T clothes moths and 80% T houseflies. 2P, 156, 579, 1176, 1376.
- 851-951-1021.  
Toluene, m-chloro-;  $\text{ClC}_6\text{H}_4\text{CH}_3$ . (3-Chloro-1-methylbenzene).  
T screwworms; m.l.c. of 0.67%. 156, 1376.
- 851-951-1021.  
Toluene, p-chloro-;  $\text{ClC}_6\text{H}_4\text{CH}_3$ . (2-Chloro-1-methylbenzene).  
T screwworms; m.l.c. of 0.67%. 156, 1376.
- 851-951-1021.  
Toluene, p-chloro-;  $\text{ClC}_6\text{H}_4\text{CH}_3$ . (4-Chloro-1-methylbenzene).  
NT screwworms at 0.67%. 156, 1376.
- 851-951-1021.  
Toluene, chloro-, OU;  $\text{ClC}_6\text{H}_4\text{CH}_3$ . (Monochlorotoluene).  
NT *Agriotes*. 1382.
- 851-951-1021.  
Toluene, α-chloro-;  $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$ . (Benzyl chloride).  
T *Aphis rumicis*, *Agriotes*, and clothes moths; NT red scale. 268, 413P, 421P, 429P, 633P, 679P, 1152, 1175, 1376, 1382, 1455P.
- 851-951-1022.  
m-Xylene, α-chloro-;  $\text{CH}_3\text{C}_6\text{H}_4\text{CH}_2\text{Cl}$ . (m-Xylene chloride).  
T as mothproofing agent. 413P, 1175.
- 851-951-1022.  
Xylene, chloro-, OU;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{Cl}$ . (Monochloroxylene).  
NT *Agriotes*. 1382.
- 851-951-1113-1325-1350.  
Benzeneearsonic acid, chloro-, OU?  $\text{ClC}_6\text{H}_4\text{AsO}(\text{OH})_2$ . (Arsinic acid, chlorophenyl).  
T clothes moths. 689P, 1175.
- 851-952.  
Biphenyl, 2-chloro-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{Cl}$ . (o-Chlorodiphenyl).  
T screwworms; m.l.c. of 0.33-0.67%. 156.
- 851-952.  
Biphenyl, 4-chloro-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{Cl}$ . (p-Chlorodiphenyl).  
T mosquito larvae and 67% T codling moth larvae. 156, 488, 1291.
- 851-953-1021.  
Methane, chlorotriphenyl-;  $(\text{C}_6\text{H}_5)_3\text{CCl}$ .  
NT silkworms and NT screwworms at 0.67%. 156, 561.
- 851-954-1021-1193-1291.  
Phosphonium chloride, o-chlorobenzyltriphenyl-;  $\text{Cl}-\text{C}_6\text{H}_4\text{CH}_2(\text{C}_6\text{H}_5)_3\text{PCl}$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 851-954-1021-1193-1291.  
Phosphonium chloride, p-chlorobenzyltriphenyl-;  $\text{Cl}-\text{C}_6\text{H}_4\text{CH}_2(\text{C}_6\text{H}_5)_3\text{PCl}$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 851-961.  
Cyclohexane, chloro-;  $\text{C}_6\text{H}_{11}\text{Cl}$ . (Cyclohexylchloride).  
T *Aphis rumicis*; NT screwworms. 156, 1153.
- 851-989.  
Dodecane, 1-chloro-;  $\text{C}_{12}\text{H}_{25}\text{Cl}$ . (n-Dodecylchloride).  
Fly spray. 107P, 112.
- 851-999.  
Pentane, 1-chloro-;  $\text{C}_5\text{H}_{11}\text{Cl}$ . (n-Amyl chloride).  
NT red scale. 268.
- 851-999.  
Butane, 1-chloro-3-methyl-;  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{Cl}$ . (Isomyl chloride).  
100% T rice weevil; ST red scale. 268, 1180.
- 851-999-1030.  
1-Butene, 3-chloro-3-methyl-;  $\text{CH}_3\text{CH}(\text{Cl})(\text{CH}_3)\text{CH}_2\text{CH}_3$ .  
T *Ephestia*. 58A, 1513P.
- 851-999-1030.  
2-Butene, 1-chloro-2-methyl-;  $\text{ClCH}_2\text{C}(\text{CH}_3)=\text{CH}-\text{CH}_3$ .  
T *Ephestia*. 58A.
- 851-1001.  
Butane, 1-chloro-;  $\text{C}_4\text{H}_9\text{Cl}$ . (n-Butyl chloride).  
100% T rice weevil; ST red scale and houseflies. 268, 579, 1180.
- 851-1001.  
Butane, 2-chloro-;  $\text{C}_4\text{H}_9\text{CH}(\text{CH}_3)\text{Cl}$ . (sec-Butyl chloride; methylallylchloromethane).  
ST red scale. 268.
- 851-1001.  
Propane, 1-chloro-2-methyl-;  $\text{ClCH}_2\text{CH}(\text{CH}_3)\text{CH}_3$ . (Isobutyl chloride).  
T *Ephestia*; NT red scale. 58A, 268.
- 851-1001.  
Propane, 2-chloro-2-methyl-;  $(\text{CH}_3)_3\text{CCl}$ . (tert-Butyl chloride; trimethylchloromethane).  
100% T rice weevil; ST red scale and wireworms. 268, 846, 1180.
- 851-1001-1030.  
1-Propene, 3-chloro-2-methyl-;  $\text{CH}_3\text{C}(\text{CH}_3)\text{CH}=\text{CH}_2$ . (Methylallyl chloride; 1-chloro-2-methyl-2-propene).

- 95% *T. Tribolium confusum* and *T. many species of insects*. 57P, 58A, 118, 1144, 1155, 1275, 1513P.
- 851-1003.  
Propane, 1-chloro-;  $C_3H_7Cl$ . (*n*-Propylchloride).  
100% *T. rice weevil*; NT *Chrysomphalus aurantii*. 268, 1180.
- 851-1003.  
Propane, 2-chloro-;  $CH_3CHClCH_3$ . (Isopropylchloride).  
100% *T. rice weevil*; NT *Chrysomphalus aurantii*. 268, 1180.
- 851-1003-1030.  
Propane, 3-chloro-;  $CH_3CH_2CH_2Cl$ . (Allyl chloride).  
NT red scale and wireworms. 833, 846.
- 851-1011.  
Ethane, chloro-;  $C_2H_5Cl$ . (Ethyl chloride).  
T as mothproofing agent. 555P, 1179.
- 851-1011-1030.  
Ethylene, chloro-;  $ClCH:CH_2$ . (Vinylchloride).  
ST red scale. 268.
- 851-1011-1030-1113-1350.  
Ethylene, 1-arsenico-2-2-chloro-?  $ClCH:CHAsO$ . (Chlorovinyl arsenious oxide).  
100% *T. tent caterpillar* at 0.1%. 119.
- 851-1021.  
Methane, chloro-;  $CH_3Cl$ . (Methyl chloride).  
T as mothproofing agent. 555P, 1179.
- 852-910.  
Anthracene, 9,10-dichloro-;  $C_{14}H_8Cl_2$ .  
NT codling moth. 930.
- 852-924.  
Naphthalene, dichloro-, CU;  $C_{10}H_8Cl_2$ .  
T as mothproofing agent. 842P, 1176.
- 852-924.  
Naphthalene, dichlorotetrahydro-, CU;  $C_{10}H_{10}Cl_2$ .  
T mothproofing agent. 413P, 1175.
- 852-951.  
Benzene, *m*-dichloro-;  $C_6H_4Cl_2$ .  
T clothes moth and ST screwworms at m.l.s. of 0.67%. 2P, 156, 157, 481, 579, 704, 1176, 1376.
- 852-951.  
Benzene, *o*-dichloro-;  $C_6H_4Cl_2$ .  
T screwworms, houseflies, termites, Procladius and Chironomus midges, Lyctus and other powder-post beetles. 2P, 26, 156, 157, 481, 579, 704, 1176, 1376.
- 852-951.  
Benzene, *p*-dichloro-;  $C_6H_4Cl_2$ .  
HT *Culex quinquefasciatus*; T clothes moth; ST red scale and ST screwworms at 0.67%; NT *Melanophus m. mexicanus*. 156, 157, 516, 671, 846, 911, 986, 1150, 1175, 1176, 1290, 1291, 1311, 1376, 1465P.
- 852-951.  
Benzene, dichloro-, CU;  $C_6H_4Cl_2$ .  
T as mothproofing agent. 474P, 1175, 1176, 1293P.
- 852-951-1021.  
Toluene,  $\alpha$ ,2-dichloro-;  $ClC_6H_4CH_2Cl$ . (Benzyl chloride, *o*-chloro).  
T as mothproofing agent. 1175, 1455P.
- 852-951-1021.  
Toluene,  $\alpha$ -chloro *or* -chloro-, CU;  $ClC_6H_4CH_2Cl$ .  
T as mothproofing agent. 413P, 1175.
- 852-951-1021.  
Toluene,  $\alpha$ , $\alpha$ -dichloro-;  $C_6H_4CHCl_2$ . (Benzal chloride; benzylidene chloride).  
T Agriotes; ST red scale. 156, 268, 579, 1382.
- 852-951-1022.  
Xylene,  $\alpha$ , $\alpha$ -dichloro-;  $CH_3C_6H_4CHCl_2$ . (*m*-Xylylene dichloride).  
T as mothproofing agent. 413P, 1175.
- 852-952.  
Biphenyl, 4,4'-dichloro-;  $ClC_6H_4C_6H_4Cl$ . (4,4'-Dichlorodiphenyl).  
ST screwworms at 0.67%; NT mosquito larvae and codling moth. 156, 487, 930, 1291.
- 852-953-1022-1356.  
Phosphoric acid, di-(*m*-chlorotolyl) phenyl ester;  $C_6H_4(C_6H_4Cl)CH_2PO_4$ . (Monophenyl-di-*m*-chlorotolyl ester of phosphoric acid). 877P.
- 852-954-1021-1193-1291.  
Phosphonium chloride, 3-4-dichlorobenzyltriphenyl-;  $ClC_6H_4CH_2(C_6H_5)_3P^+Cl^-$ . (3,4-Dichlorobenzyltriphenyl-phosphoniumchloride).  
T as mothproofing agent. 867P, 1175.
- 852-954-1021-1193-1291.  
Phosphonium chloride, dichlorobenzyl triphenyl-, CU;  $ClC_6H_4CH_2(C_6H_5)_3P^+Cl^-$ . (Triphenyldichlorobenzylphosphonium chloride).  
T as mothproofing agent. 423P, 431P, 1175, 1360P.
- 852-999.  
Pentane, dichloro-, distillate, CU.  
NT termites at 1-4000. 704.
- 853-999.  
Pentane, dichloro-, residue, CU.  
NT termites at 1-4000. 704.
- 852-999-1030.  
2-Butene, 1,1-dichloro-2-methyl-;  $Cl_2CHC(CH_3):CHCH_3$ .  
T *Sphastis*. 58A, 1513P.
- 852-1001.  
Butane, 1,1-dichloro-;  $CH_3CH_2CH_2CHCl_2$ . (*n*-Butylidene chloride).  
HT *Sitophilus oryzae*. 259, 1180.
- 852-1001.  
Butenes, dichloro-, CU. 940P.
- 852-1003.  
Propane, 1,2-dichloro-;  $CH_3CHClCH_2Cl$ . (Propylene chloride; propylene dichloride).  
100% *T. rice weevil*; NT *Chrysomphalus aurantii*. 268, 1180.
- 852-1003.  
Propane, 1-3-dichloro-;  $ClCH_2CH_2CH_2Cl$ . (Trimethylene chloride; trimethylene dichloride).  
100% *T. rice weevil*. 259, 1180.
- 852-1003-1030.  
Propane, dichloro-, mixture with dichloropropylene. ("D D Mixture").  
T nematodes and wireworms. 175A, 504, 1276.
- 852-1011.  
Ethane, 1,1-dichloro-;  $CH_3CHCl_2$ . (Ethylidene chloride; ethylene dichloride).  
100% *T. rice weevil*; ST red scale. 268, 1180.
- 852-1011.  
Ethane, 1,2-dichloro-;  $CH_2ClCH_2Cl$ . (Ethylene dichloride).  
100% *T. rice weevil*, 95% *T. Tribolium*, and *T. root-knot nematodes*; NT houseflies and red scale. 13, 268, 568, 579, 1155, 1180.
- 852-1011-1030.  
Ethylene, 1,2-dichloro-;  $CHCl:CHCl$ . (Dichloroethylene).  
100% *T. rice weevil*; ST red scale and wireworms. 268, 846, 1180.
- 852-1021.  
Methane, dichloro-;  $CH_2Cl_2$ . (Methylene chloride).  
100% *T. rice weevil* and *T. Chrysomphalus aurantii*. 268, 1180.
- 853-924.  
Naphthalene, trichloro-, CU;  $C_{10}H_6Cl_3$ .  
T as mothproofing agent; NT *Pieris rapae*. 635, 842P, 844P, 913P, 1176, 1179.
- 853-951.  
Benzene, 1,2,4-trichloro-,  $C_6H_3Cl_3$ .  
50% *T. Aphis rumicis*. 156, 579, 1377.
- 853-951.  
Benzene, trichloro-, CU;  $C_6H_3Cl_3$ .  
T *Aphis rumicis*, termites, Procladius and Chironomus midges, and as mothproofing agent. 2P, 481, 1144, 1152, 1176, 1376, 1382.
- 853-951-1021.  
Toluene,  $\alpha$ ,2,6-trichloro-;  $Cl_3C_6H_2CH_2Cl$ . (Benzyl chloride, 2,6-dichloro).  
T as mothproofing agent. 413P, 421P, 533P, 1175, 1393P.
- 853-951-1021.  
Toluene,  $\alpha$ , $\alpha$ ,2-trichloro-;  $ClC_6H_4CHCl_2$ . (Benzal chloride, *o*-chloro).  
T as mothproofing agent. 417P, 1175.
- 853-951-1021.  
Toluene,  $\alpha$ , $\alpha$ ,4-trichloro-;  $ClC_6H_4CHCl_2$ . (Benzal chloride, *p*-chloro).  
T clothes moths. 417P, 1175.
- 853-951-1021.  
Toluene,  $\alpha$ , $\alpha$ , $\alpha$ -trichloro-;  $C_6H_2OCl_3$ . (Benzotrichloride).  
ST red scale. 268, 1382.
- 853-953-1356.  
Phosphoric acid, tri-(*o*-chlorophenyl)ester;  $[ClC_6H_4]_3PO_4$ .  
T clothes moths. 877P.



- 853-953-1356.  
Phosphoric acid, tri-(*p*-chlorophenyl)ester;  
[ClC<sub>6</sub>H<sub>4</sub>]<sub>3</sub>PO<sub>4</sub>.  
T clothes moths. 877P.
- 853-984-1021-1193-1291.  
Phosphonium chloride, 2,4,5-trichlorobenzyltriphenyl-;  
Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>PO<sub>4</sub> (2,4,5-Trichlorobenzyl tri-  
phenylphosphoniumchlorid).  
T as mothproofing agent. 867P, 1175.
- 853-985-1270.  
Boric acid, tris(2-phenyl-4-chlorophenyl)ester;  
[C<sub>6</sub>H<sub>4</sub>ClC<sub>6</sub>H<sub>4</sub>(Cl)O]<sub>3</sub>B. (Tri-(2-phenyl-4-chloro-phenyl-  
borate). 1113P.
- 853-1011.  
Ethane, 1,1,2-trichloro-? CH<sub>2</sub>ClCHCl<sub>2</sub>. (Trichloro-  
ethane).  
100% T rice weevil. 1180.
- 853-1011-1030.  
Ethylene, 1,1,2-trichloro-? CHCl:CCl<sub>2</sub>. (Ethylene,  
trichloro-).  
HT rice weevil; T red scale, houseflies, and as moth-  
proofing agent. 268, 440P, 579, 1179, 1180.
- 853-1021.  
Chloroform; CHCl<sub>3</sub>. (Trichloromethane).  
T *Tenebrio molitor* and clothes moths. 26, 411P,  
841, 1175, 1399P.
- 854-924.  
Naphthalene, 1,2,3,4-tetrachloro-; C<sub>10</sub>H<sub>6</sub>Cl<sub>4</sub>.  
T oodling moth larvae; NT mosquito larvae. 156,  
487, 1291.
- 854-924.  
Naphthalene, tetrachloro-, CU; C<sub>10</sub>H<sub>6</sub>Cl<sub>4</sub>. (Naphtha-  
lene tetrachloride).  
NT clothes moths. 739, 890P, 1176.
- 854-951.  
Benzene, 1,2,4,5-tetrachloro-; C<sub>6</sub>H<sub>2</sub>Cl<sub>4</sub>.  
50% T *Aphis rumicis*; NT oodling moth. 156, 930,  
1377.
- 854-951.  
Benzene, tetrachloro-, CU.  
T as mothproofing agent. 2P, 1176.
- 854-951-1021.  
Toluene, α,2,3,4-tetrachloro-; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>Cl. (2,3,4-  
Trichlorobenzyl chloride).  
T as mothproofing agent. 413P, 1175.
- 854-951-1021.  
Toluene, α-chloro-α-trichloro-, CU; Cl<sub>3</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>Cl.  
(Trichlorobenzylchloride).  
T as mothproofing agent. 1175, 1393P, 1455P.
- 854-951-1021.  
Toluene, α,α,2,6-tetrachloro-; Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>CHCl<sub>2</sub>. (Benzal  
chloride, 2,6-dichloro).  
T clothes moths. 417P, 1175.
- 854-1001.  
Butane, 1,2,3,4-tetrachloro-; ClCH<sub>2</sub>CHClCHClCH<sub>2</sub>Cl.  
T houseflies. 1276.
- 854-1011.  
Ethane, 1,1,2,2-tetrachloro-; Cl<sub>2</sub>CHCHCl<sub>2</sub>. (*s*-Tetra-  
chloroethane).  
T whitefly, housefly, root-knot nematodes, and T  
screwworms; NT *Chrysomphalus aurantii*. 156, 268,  
579, 1080A, 1379.
- 854-1011-1030.  
Ethylene, tetrachloro-; Cl<sub>2</sub>C:CCl<sub>2</sub>. (Perchloroethyl-  
ene).  
100% T rice weevil and T clothes moths; NT *Chry-  
somphalus aurantii*. 156, 268, 731P, 1179, 1180.
- 854-1021.  
Carbon tetrachloride; CCl<sub>4</sub>. (Tetrachloromethane).  
HT *Yulex quinquefasciatus* and rice weevil; T *Tri-  
bolium* and clothes moths; ST red scale; commonly  
used fumigant. 13, 157, 268, 297P, 440P, 446P,  
1165P, 1179, 1180.
- 855-951-1021.  
Toluene, α-chloro-α-tetrachloro-, CU; Cl<sub>4</sub>C<sub>6</sub>HCH<sub>2</sub>Cl.  
(Toluene, α-pentachloro-; tetrachlorobenzylchloride).  
T as mothproofing agent. 413P, 1175, 1393P.
- 855-952-1011.  
Ethane, 2,2-bis(*p*-chlorophenyl)-1,1,1-trichloro-;  
(ClC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>CHCCl<sub>3</sub>. (D.D.T.; Gesarol; Neocid;  
G.N.B.-A.).  
HT many species of insects.
- 855-1011.  
Ethane, 1,1,1,2,2-pentachloro-; CHCl<sub>2</sub>CCl<sub>3</sub>. (Penta-  
chloroethane).  
100% T rice weevil; T root-knot nematodes. 156,  
568, 579, 1180.
- 856-924.  
Naphthalene, hexachloro-, CU; C<sub>10</sub>H<sub>2</sub>Cl<sub>6</sub>.  
T as mothproofing agent. 842P, 844P, 913P, 1176,  
1179.
- 856-951.  
Benzene, hexachloro-; C<sub>6</sub>Cl<sub>6</sub>. (Perchlorobenzene).  
50% T *Aphis rumicis*; NT screwworms and *Melano-  
plus m. mexicanus*. 156, 1150, 1291, 1377.
- 856-961.  
Benzene, hexachloride; C<sub>6</sub>H<sub>2</sub>Cl<sub>6</sub>.  
NT screwworms at m.l.c. of 0.67%. 156.
- 856-1011.  
Ethane, hexachloro-; Cl<sub>2</sub>COCCl<sub>2</sub>. (Carbon hexachlor-  
ide; carbon trichloride; perchloroethane; tetrachloro-  
ethylene dichloride).  
HT *Culex quinquefasciatus* and rice weevil; T as  
mothproofing agent; NT *Attageus piceus* and  
*Tineola biselliella* (739). 516, 579, 606, 739, 1176,  
1180, 1185, 1291, 1496P.
- 857-924.  
Naphthalene, polychloro-, CU.  
T as mothproofing agent. 913P, 1179.
- 857-952.  
Biphenyl, chloro-, CU.  
20% T houseflies. 579.
- 857-952-1021-1193.  
Phosphonium chloride, phenylbenzyl-, CU? (Chlor-  
inated phenyl benzyl phosphonium compound).  
T *Lucilia cuprina*. 1144.
- 857-953-1021-1389.  
Phenol, 2,4,5-trichlorobenzylidene-2,2'-bis[3,5-dich-  
loro-, diacid sulfate; HC(C<sub>6</sub>H<sub>2</sub>Cl<sub>3</sub>)(C<sub>6</sub>H<sub>2</sub>Cl<sub>3</sub>SO<sub>3</sub>H)<sub>2</sub>.  
(Acid sulfuric acid diester of 2,2'-dihydroxy-3,3',5,5',  
2'',4'',5''-heptachloro-triphenyl methane).  
T as mothproofing agent. 1267P.
- 857-999.  
Pentane, polychloro-, CU.  
NT termites at 1-4000. 704.
- 857-1027.  
Paraffin, chlorinated.  
NT houseflies. 579.
- 861-871-951.  
Benzene, 1-fluoro-4-iodo-; FC<sub>6</sub>H<sub>4</sub>I. (*p*-Fluoriodo-  
benzene).  
NT oodling moth larvae at 4 lbs./100 gal. 110, 1291.
- 861-924.  
Naphthalene, fluoro-, CU? C<sub>10</sub>H<sub>7</sub>F. (Naphthyl fluoride).  
NT *Tineola biselliella* and *Attageus piceus*. 739,  
1176.
- 861-951.  
Benzene, fluoro-; C<sub>6</sub>H<sub>5</sub>F. (Phenyl fluoride).  
ST red scale; NT houseflies. 268, 579.
- 861-951-1021.  
Toluene, *m*-fluoro-; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>F.  
NT red scale. 268.
- 861-951-1021.  
Toluene, *o*-fluoro-; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>F.  
T red scale. 268.
- 861-951-1021.  
Toluene, *p*-fluoro-; CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>F.  
T red scale. 268.
- 861-951-1023.  
Pseudocumene, fluoro-, CU; FC<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>? (Fluoro-  
pseudocumol; fluor-pseudo-cumene).  
T as mothproofing agent. 411P, 425P, 1175, 1399P.
- 861-989.  
Dodecane, 1-fluoro-; C<sub>12</sub>H<sub>25</sub>F. (*n*-Dodecyl fluoride).  
Fly spray. 107P, 112.
- 861-1001.  
Butane, fluoro-, CU; C<sub>4</sub>H<sub>9</sub>F. (Monofluorobutane).  
345P.
- 861-1045.  
Organic compounds, fluoro-, CU. (FFluoro compounds).  
T as mothproofing agent. 411P, 425P, 1175, 1399P.
- 862-952.  
Biphenyl, 4,4'-difluoro-; FC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>4</sub>F. (4,4'-Difluor-  
diphenyl).

- HT codling moth; T as mothproofing agent. 411P, 425P, 1175, 1291, 1399P.
- 862-952-1011.  
Ethane, 1,2-difluoro-1,1-diphenyl-;  $\text{FCH}_2\text{C}(\text{C}_6\text{H}_5)_2\text{F}$ . ( $\alpha,\alpha$ -Diphenyl- $\alpha,\beta$ -difluoroethylene). 813P.
- 862-1001.  
Butane, difluoro-, CU;  $\text{C}_4\text{H}_8\text{F}_2$ . 345P.
- 863-951-1021.  
Toluene,  $\alpha,\alpha,\alpha$ -trifluoro-;  $\text{C}_6\text{H}_5\text{CF}_3$ . (Benzotrifluoride;  $\alpha$ -trifluorotoluene, phenyl fluoride).  
NT houseflies. 579.
- 863-1021.  
Fluoroform;  $\text{CHF}_3$ .  
T clothes moths. 411P, 425P, 1175, 1399P.
- 865-951-1022.  
 $o$ -Xylene,  $\alpha,\alpha,\alpha^2,\alpha^2,\alpha^2$ -pentafluoro-;  $\text{CF}_3\text{C}_6\text{H}_4\text{CHF}_2$ . ( $o$ -Trifluoromethylbenzyl fluoride). 1244P.
- 871-912.  
Fluorene, 2-iodo-;  $\text{C}_{12}\text{H}_9\text{I}$ .  
NT *Cochliomyia americana* larvae. 110, 197P, 944.
- 871-924.  
Naphthalene, 1-iodo-;  $\text{C}_{10}\text{H}_7\text{I}$ . ( $\alpha$ -Iodonaphthalene).  
95% T houseflies. 579.
- 871-924.  
Naphthalene, 2-iodo-;  $\text{C}_{10}\text{H}_7\text{I}$ . ( $\beta$ -Iodonaphthalene).  
T codling moth larvae and T screwworms at m.l.c. of 0.08-0.10%. 110, 156, 929, 930.
- 871-951.  
Benzene, iodo-;  $\text{C}_6\text{H}_5\text{I}$ . (Phenyl iodide).  
T screwworms, houseflies, potato beetle eggs, and clothes lice; NT codling moth larvae at 4 lbs./100 gal. 110, 156, 353P, 579, 1002, 1003, 1009, 1011, 1292, 1382.
- 871-951-1021.  
Toluene,  $p$ -iodo-;  $\text{CH}_3\text{C}_6\text{H}_4\text{I}$ .  
NT screwworms at m.l.c. of 0.67%. 110, 156.
- 871-952.  
Biphenyl, 2-iodo-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{I}$ . ( $o$ -Iododiphenyl).  
MT screwworms; NT codling moth larvae. 110, 156, 1291.
- 871-952.  
Biphenyl, 4-iodo-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{I}$ . ( $p$ -Iododiphenyl).  
T codling moth larvae, screwworms, and 66% T cutworm mosquito larvae at 1-100,000. 110, 156, 487, 1291.
- 871-999.  
Butane, 1-iodo-3-methyl-;  $\text{ICH}_2\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_3$ . (Isomyl iodide).  
T rice weevil. 110, 946, 1180.
- 871-1001.  
Butane, 1-iodo-;  $\text{C}_4\text{H}_9\text{I}$ . ( $n$ -Butyl iodide).  
T rice weevil, flour weevil, and granary weevil; NT citrus scale and black scale at 0.05-0.25%. 110, 1042, 1111, 1180.
- 871-1001.  
Propane, 1-iodo-2-methyl-;  $(\text{CH}_3)_2\text{CHCH}_2\text{I}$ . (Isobutyl iodide;  $\alpha$ -iodoisobutane).  
T rice weevil. 110, 846, 1180.
- 871-1001.  
Butane, 2-iodo-;  $\text{CH}_3\text{CHICH}_2\text{CH}_3$ . (*sec*-Butyl iodide).  
T rice weevil. 110, 846, 1180.
- 871-1001.  
Propane, 2-iodo-2-methyl-;  $(\text{CH}_3)_3\text{CI}$ . (*tert*-Butyl iodide;  $\beta$ -iodoisobutane).  
T rice weevil. 110, 579, 1180.
- 871-1003.  
Propane, 1-iodo-;  $\text{C}_3\text{H}_7\text{I}$ . ( $n$ -Propyl iodide;  $\alpha$ -iodopropane).  
T rice weevil; NT California red scale. 110, 268, 1180.
- 871-1003.  
Propane, 2-iodo-;  $(\text{CH}_3)_2\text{CHI}$ . (Isopropyl iodide;  $\beta$ -iodopropane).  
T rice weevil; NT *Chrysomphalus aurantii*. 110, 268, 1180.
- 871-1003-1030.  
1-Propene, 3-iodo-;  $\text{CH}_3\text{CHCH}_2\text{I}$ . (Allyl iodide, 3-iodopropylene, and  $\gamma$ -iodopropylene).  
T rice weevil; NT California red scale. 110, 268, 846, 1180.
- 871-1011.  
Ethane, iodo-;  $\text{C}_2\text{H}_5\text{I}$ . (Ethyl iodide).  
T rice weevil; NT California red scale and sugar beet webworms. 110, 268, 1087, 1180.
- 871-1021.  
Methane, iodo-;  $\text{CH}_3\text{I}$ . (Methyl iodide).  
100% T rice weevil; NT California red scale. 110, 268, 579, 860, 1180.
- 872-951.  
Benzene,  $m$ -diiodo-;  $\text{C}_6\text{H}_4\text{I}_2$ .  
ST codling moth larvae at 4 lbs./100 gal. 110, 1292.
- 872-951.  
Benzene,  $o$ -diiodo-;  $\text{C}_6\text{H}_4\text{I}_2$ .  
ST codling moth larvae at 4 lbs./100 gal. 110, 1292.
- 872-951.  
Benzene,  $p$ -diiodo-;  $\text{C}_6\text{H}_4\text{I}_2$ .  
58% T culicine mosquito larvae at 4-100,000, T screwworms at 0.67%, and 25-40% T codling moth larvae; NT codling moth larvae at 4 lbs./100 gal. (1292). 110, 156, 487, 930, 1292.
- 872-952.  
Biphenyl, 4,4'-diiodo-;  $\text{IC}_6\text{H}_4\text{C}_6\text{H}_4\text{I}$ . ( $p,p'$ -Diiodobiphenyl).  
T codling moth larvae; NT culicine mosquito larvae and European corn borer. 110, 487, 1120, 1123, 1291.
- 872-1011.  
Ethane, 1,2-diiodo-;  $\text{ICH}_2\text{CH}_2\text{I}$ . (Ethylene iodide). 1351P.
- 872-1021.  
Methane, diiodo-;  $\text{CH}_2\text{I}_2$ . (Methylene iodide).  
T rice weevil and houseflies; NT California red scale. 110, 137P, 138P, 268, 579, 1180.
- 873-1021.  
Iodoform;  $\text{CHI}_3$ . (Triiodomethane).  
T common cockroaches, caterpillars, houseflies, and lice; NT rice weevil, wireworm larvae, and codling moth larvae. 26, 28, 47, 48P, 64, 136P, 137P, 138P, 248, 579, 616, 617, 654, 714, 797, 801, 840, 845, 914, 929, 930, 946, 1005, 1084, 1141P, 1180, 1185, 1339, 1382, 1418, 1500, 1501P.
- 881-924.  
Naphthalene, halo-, CU;  $\text{C}_{10}\text{H}_7\text{X}$ . (Monohalogenated naphthalene). 912P.
- 881-999-1030.  
1-Butene, 3-halo-3-methyl-;  $\text{CH}_3\text{CHCX}(\text{CH}_3)\text{CH}_3$ .  
A compound having at least one unsaturated bond between the two C atoms and at least 4 C atoms per molecule. 1512P.
- 887-924.  
Naphthalenes, polyhalogenated, CU.  
T as mothproofing agent. 423P, 1175.
- 887-1045.  
Hydrocarbon, chlorinated.  
T as mothproofing agent. 5P, 1179.
- 890-951.  
Benzene, iodo-, dichloride;  $\text{C}_6\text{H}_5\text{ICl}_2$ . (Phenylidodichloride).  
T many species of insects. 110, 1314P.
902.  
Chrysene;  $\text{C}_{18}\text{H}_{12}$ . (Benzo [a] phenanthrene).  
NT screwworms at 0.67%. 156.
904.  
Fluoranthene;  $\text{C}_{16}\text{H}_{10}$ .  
T cockroaches. 587.
910.  
Anthracene;  $\text{C}_{14}\text{H}_{10}$ .  
81% T codling moth larvae; NT California red scale. 156, 268, 1291.
910.  
Anthracene, 9,10-dihydro-;  $\text{C}_{14}\text{H}_{12}$ .  
NT as mothproofing agent. 239.
910.  
Phenanthrene;  $\text{C}_{14}\text{H}_{10}$ .  
75% T codling moth larvae and T mosquito larvae; NT silkworm and Agrotis. 488, 561, 1291, 1382.
- 910-1003-1021.  
Retene;  $\text{CH}_3(\text{C}_{14}\text{H}_9)\text{CH}(\text{CH}_3)_2$ . (?-Isopropyl-1-methyl-phenanthrene).  
NT screwworms at m.l.c. of 0.67%. 156.
912.  
Acenaphthene;  $\text{C}_{12}\text{H}_{10}$ . (Naphthyleneethylene).  
89% T codling moth larvae. 1291.
912.  
Fluorene;  $\text{C}_{16}\text{H}_{12}$ . (Diphenylmethane).  
78% T codling moth and T corn borer; NT *Pieris rapae*. 635, 1120, 1291.
924.  
Naphthalene;  $\text{C}_{10}\text{H}_8$ . (Moth camphor; naphthalin; naphthalin; tar camphor; white tar; camphor balls).

- 100% *T. Aphis rumicis* at 2.5%; *T. Tenebrio molitor* and as mothproofing agent; NT *Melanoplus m. mexicanus*. 1P, 3P, 66, 317P, 327P, 332P, 506P, 574P, 849, 874P, 882P, 884P, 936P, 1101P, 1117A, 1137P, 1150, 1175, 1176, 1179, 1258P, 1261P, 1265, 1376, 1407, 1426P, 1465P, 1479P, 1496P.
924. Naphthalene, dihydro-, CU;  $C_{10}H_{18}$ .  
T codling moth and grain weevils. 810P, 915.
924. Tetralin;  $C_{10}H_{12}$ . (1,2,3,4-Tetrahydronaphthalene; naphthalene, 1,2,3,4-tetrahydride).  
T grain weevils, clothes moths, 50% *T. Aphis rumicis*, and T as mothproofing agent; NT houseflies. 239A, 810P, 1040P, 1176, 1231P, 1276, 1376, 1377, 1426P.
924. Decalin;  $C_{10}H_{18}$ . (Decahydronaphthalene; bicyclo 4,4,0-decane; naphthalane; naphthane).  
100% *T. Aphis rumicis* at 10%; NT houseflies. 1040P, 1276, 1376, 1377.
- 924-952-1356. Phosphoric acid, 1-naphthyl diphenyl ester;  $C_{10}H_7(C_6H_5)_2PO_4$ . (Diphenyl- $\alpha$ -naphthyl ester of phosphoric acid). 877P.
- 924-952-1356. Phosphoric acid, 2-naphthyl diphenyl ester;  $C_{10}H_7(C_6H_5)_2PO_4$ . (Diphenyl- $\beta$ -naphthyl ester of phosphoric acid). 877P.
- 924-1013-1193-1291. Phosphonium chloride, triethylnaphthyl-;  $C_{10}H_7(C_2H_5)_3PCl$ .  
T as mothproofing agent. 871P, 1179.
- 924-1013-1193-1333. Phosphonium iodide, triethylnaphthyl-;  $C_{10}H_7(C_2H_5)_3PI$ .  
T as mothproofing agent. 110, 394P, 395P, 871P, 1175, 1176, 1179.
- 924-1021. Naphthalene, 1-methyl-;  $CH_3C_{10}H_7$ . (Naphthalene,  $\alpha$ -methyl).  
T houseflies. 1276.
- 924-1022. Naphthalene, dimethyl-, CU;  $(CH_3)_2C_{10}H_6$ .  
84% T codling moth larvae. 1291.
- 924-1111. Stibine, tri-1-naphthyl-;  $(C_{10}H_7)_3Sb$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 930-1023-1030. Camphene;  $H_8C:(C_7H_5)(CH_3)_2$ . (3,3-Dimethyl-2-methylenenorcamphane).  
T *Lucilia cuprina* larvae. 849.
- 932-1023. Pinene;  $C_{10}H_{16}$ . (4,6,6-Trimethylbicyclo[3,1,1]-3-heptene).  
T oriental peach moth and *Leptinotarsa decemlineata*; NT *Chrysomphalus aurantii*. 268, 508, 1009.
951. Benzene;  $C_6H_6$ . (Benzol; bensole; phene).  
NT red scale. 268, 931.
- 951-961. Cyclohexane, phenyl-;  $C_6H_5C_6H_{11}$ . (Cyclohexylbenzene; 1,2,3,4,5,6-hexahydrobiphenyl).  
ST screwworms at m.l.c. of 0.67%. 156.
- 951-999. Benzene, *tert*-amyl-;  $C_6H_5C(CH_3)_2C_2H_5$ . (2-Methyl-2-phenylbutane).  
NT red scale. 268.
- 951-1001. Benzene, butyl-;  $C_6H_5C_4H_9$ . (1-Pentylbenzene).  
ST screwworms at m.l.c. of 0.67%. 156.
- 951-1001. Benzene, *sec*-butyl-;  $C_6H_5CH(CH_3)C_2H_5$ . (2-Phenylbutane).  
NT screwworms at 0.67%. 156.
- 951-1001. Benzene, *tert*-butyl-;  $C_6H_5C(CH_3)_3$ . (2-Methyl-2-phenylpropane).  
NT screwworms at 0.67%. 156.
- 951-1003. Cumene;  $C_6H_5CH(CH_3)_2$ . (3-Phenolpropane; isopropylbenzene; cumol).  
ST screwworms at 0.67%. 156.
- 951-1003-1021. Cymene;  $CH_3C_6H_4CH(CH_3)_2$ . (*p*-Isopropyltoluene; 4-isopropyl-1-methylbenzene).  
T *Aphis rumicis*, *Tenebrio molitor*, and 94% T codling moth larvae; NT Agriotes, attractant for oriental peach moth, and *Bombus mori* larvae. 561, 841, 1094, 1153, 1291.
- 951-1011. Benzene, ethyl-;  $C_6H_5C_2H_5$ . (Phenylethane).  
NT screwworms at 0.67%. 156.
- 951-1013-1021-1193-1291. Phosphonium chloride, bensyltriethyl-;  $C_6H_5CH_2(C_2H_5)_3PCl$ .  
T as mothproofing agent. 394P, 395P, 871P, 1175, 1176, 1179.
- 951-1021. Toluene;  $C_6H_5CH_3$ . (Methyl benzene; phenylmethane).  
T clothes moths and attractant for oriental peach moth; ST *Aphis rumicis*; NT wireworms. 156, 1094, 1152, 1175, 1242P, 1396.
- 951-1021-1113-1325-1350.  $\alpha$ -Toluenearsonic acid?  $C_6H_5CH_2AsO(OH)_2$ . (Bensyl arsenic acid).  
MT codling moth. 930.
- 951-1021-1356. Phosphoric acid, diphenyl *m*-tolyl ester;  $CH_3C_6H_4(C_6H_5)_2PO_4$ . (Diphenyl-*m*-cresyl ester of phosphoric acid). 877P.
- 951-1021-1356. Phosphoric acid, diphenyl *o*-tolyl ester;  $CH_3C_6H_4(C_6H_5)_2PO_4$ . (Diphenyl-*o*-cresyl-phosphoric acid ester). 877P.
- 951-1021-1356. Phosphoric acid, diphenyl *p*-tolyl ester;  $CH_3C_6H_4(C_6H_5)_2PO_4$ . (Diphenyl-*p*-cresylester of phosphoric acid). 877P.
- 951-1021-1356. Phosphoric acid, di-*m*-tolyl phenyl ester;  $C_6H_5(CH_3-C_6H_4)_2PO_4$ . (Phenyl-di-*m*-cresyl ester of phosphoric acid). 877P.
- 951-1021-1356. *o*-Tolyl phosphate;  $(CH_3C_6H_4)_2PO_4$ . (Tri-*o*-cresyl-phosphate).  
NT *Melanoplus m. mexicanus*. 1150.
- 951-1021-1356. *p*-Tolyl phosphate;  $(CH_3C_6H_4)_2PO_4$ . (Tri-*p*-cresyl-phosphate).  
NT silkworm. 561.
- 951-1021-1356. Tylol phosphate, CU;  $(CH_3C_6H_4)_2PO_4$ . (Tricresyl phosphate).  
T as mothproofing agent. 32A, 440P, 446P, 877P, 1175, 1179.
- 951-1021-1366. Phosphoric acid diamide, *m*-tolyl ester;  $CH_3C_6H_4-OPO(NH_2)_2$ . 518P.
- 951-1021-1366. Phosphoric acid diamide, *p*-tolyl ester;  $CH_3C_6H_4-OPO(NH_2)_2$ .  
T mites. 518P.
- 951-1021-1412. Trithioarsenious acid, tri-*p*-tolyl ester?  $(CH_3C_6H_4S)_3As$ .  
92% T codling moth larvae and 65% T mosquito larvae. 437, 1291.
- 951-1022. *m*-Xylene;  $C_6H_4(CH_3)_2$ . (*m*-Dimethyl benzene).  
NT screwworms at m.l.c. of 0.67%. 156.
- 951-1022. *o*-Xylene;  $C_6H_4(CH_3)_2$ . (*o*-Dimethyl benzene).  
NT screwworms at m.l.c. of 0.67%. 156.
- 951-1022. *p*-Xylene;  $C_6H_4(CH_3)_2$ . (*p*-Dimethyl benzene).  
NT screwworms at m.l.c. of 0.67%. 156.
- 951-1022. Xylene, CU;  $C_6H_4(CH_3)_2$ .  
T *Aphis rumicis*, *Tenebrio molitor*, and rootknot nematodes. 563, 841, 1004, 1152.
- 951-1023. Pseudocumene;  $C_6H_5(CH_3)_2$ . (1,2,4-Trimethyl benzene).  
T *Tenebrio molitor*; NT red scale and clothes moth. 156, 368, 411P, 435P, 841, 1175, 1282, 1399P.

- 951-1023.  
Mesitylene;  $C_6H_3(CH_3)_3$ . (1,3,5-Trimethyl benzene).  
T *Lucilia cuprina* larvae; NT *Agriotes* and NT  
screwworms at m.l.c. of 0.67%. 156, 849, 1382.
- 951-1025.  
Benzene, pentamethyl-;  $C_6H(CH_3)_5$ .  
NT *Bombyx mori* larvae. 561.
- 951-1025.  
Benzene, hexamethyl-;  $C_6(CH_3)_6$ .  
NT screwworms at m.l.c. of 0.67%. 156.
- 951-1109-1182-1303.  
Benzene, compound with ammonium nickel cyanide.  
NT *Leptinotarsa decemlineata*. 1008.
- 951-1111-1325-1350.  
Benzenesulfonic acid;  $C_6H_5SO_3(OH)_2$ . (Stibinic acid,  
phenyl).  
T as mothproofing agent. 639P, 1175.
- 951-1111-1350.  
Benzene, stiboso-?  $C_6H_5SbO$ . (Monophenyl stibine ox-  
ide).  
T clothes moth. 639P, 1175.
- 951-1113-1218-1350.  
Benzenearsonic acid, sodium salt?  $C_6H_5AsO_2Na_2$ ?  
(Phenyl arsine acid, sodium salt).  
T as mothproofing agent. 463P, 1176.
- 951-1113-1325-1350.  
Benzenearsonic acid?  $C_6H_5AsO(OH)_2$ . (Arsinic acid,  
phenyl).  
T clothes moth. 639P, 1175.
- 951-1113-1350.  
Benzene, arsenoso-?  $C_6H_5AsO$ . (Phenyl arsenious ox-  
ide).  
100% T tent caterpillar at 0.1%. 119.
- 951-1119-1276.  
Bismuthine, phenyldibromo-;  $C_6H_5BiBr_2$ ? (Bismuth  
phenyldibromide).  
T as mothproofing agent. 463P, 1176.
- 951-1356.  
Triphenyl phosphate;  $(C_6H_5)_3PO_4$ .  
NT silkworm and screwworm. 156, 561.
- 951-1412.  
Trithioarsenious acid, triphenyl ester;  $(C_6H_5S)_3As$ .  
85% T mosquito larvae and 80% T codling moth  
larvae. 487, 493, 1291.
- 951-1413.  
Phosphoric acid, trithio-, triphenyl ester;  $(C_6H_5S)_3PO$ .  
Trithiophenyl phosphate).  
NT *Bombyx mori* larvae. 559, 1432.
- 951-1413.  
Thiophosphoric acid, triphenyl ester;  $(C_6H_5O)_3PS$ ?  
(Triphenyl thiophosphate).  
NT screwworms and *Bombyx mori* larvae. 156, 559,  
1432.
952.  
Biphenyl-;  $C_6H_5C_6H_5$ . (Diphenyl).  
T codling moth larvae, *Melanoplus m. mexicanus*,  
and clothes moth. 331P, 411P, 425P, 1150, 1175,  
1176, 1291, 1399P.
- 952-1001-1389.  
Sulfate, diphenylbutyl-;  $C_6H_5C_4H_9SO_4C_6H_5$ ? Aresket;  
Areskap; Aresklene). 661, 1432.
- 952-1011-1030.  
Stilbene;  $C_6H_5CH=CHC_6H_5$ . (Diphenylethylene; to-  
luylene; bibenzal; bibenzylidene).  
T as mothproofing agent. 331P, 1176.
- 952-1011-1111.  
Stibine, diphenyl ethyl-;  $C_6H_5Sb(C_6H_5)_2$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175,  
1176.
- 952-1021.  
Methane, diphenyl-;  $(C_6H_5)_2CH_2$ . (Benzylbenzene;  
benzylbenzol; phenylmethanphenyl).  
T as mothproofing agent. 331P, 1176.
- 952-1022.  
Bitolyl, CU;  $CH_3C_6H_4C_6H_4CH_3$ . (Ditolyl).  
T as mothproofing agent. 331P, 1176.
- 952-1023-1235-1291.  
Tin dichloride, dibenzyl-;  $(C_6H_5CH_2)_2SnCl_2$ .  
T clothes moth. 640P.
- 952-1027.  
Alkanes, diphenyl-;  $C_6H_5(XOX')nC_6H_5$ . In which X  
and X' represents hydrogen or alkyl groups and n repre-  
sents a whole number. 995P.
- 952-1111-1350.  
Stibene oxide, diphenyl-;  $(C_6H_5)_2HSbO$ .  
T as mothproofing agent. 463P, 1176.
- 952-1113-1350.  
Arsine oxide, diphenyl-;  $(C_6H_5)_2HASO$ .  
T as mothproofing agent. 639P, 1175.
- 952-1119-1276.  
Bismuthine, bromodiphenyl-;  $(C_6H_5)_2BiBr$ ?  
T as mothproofing agent. 639P, 1175.
- 952-1235-1350.  
Tin oxide, diphenyl-;  $(C_6H_5)_2SnO$ .  
T clothes moth. 640P.
- 952-1270.  
Boric acid, tris(2-biphenyl) ester;  $(C_6H_5C_6H_4O)_3B$ .  
(Tri-(2-phenyl-phenyl) borate). 1113P.
- 952-1356.  
Phosphoric acid, tris (2-biphenyl)-ester;  $(C_6H_5C_6H_4-  
H)_3PO_4$ . (Tri-o-phenyl-phenyl phosphate).  
NT *Bombyx mori* larvae. 561.
953.  
Biphenyl, 3-phenyl-;  $(C_6H_5)_3C_6H_4$ . (m-Diphenyl-  
benzene; 1,3-diphenylbenzene; m-phenylbiphenyl;  
m-terphenyl).  
NT screwworms. 156.
953.  
Terphenyl;  $(C_6H_5)_3C_6H_4$ . (p-Diphenylbenzene; p-  
phenylbiphenyl; triphenyl; diphenylphenylene).  
NT screwworms. 156.
- 953-1003-1030-1193-1291.  
Phosphonium chloride, allyltriphenyl-;  $CH_2:CHCH_2-  
(C_6H_5)_3P^+Cl^-$ .  
T as mothproofing agent. 394P, 395P, 871P, 1175,  
1176, 1179.
- 953-1011-1023-1193-1333.  
Phosphonium iodide, ethyltritolyl-;  $C_6H_5(CH_2C_6H_4)_2-  
PI$ .  
T as mothproofing agent. 110, 394P, 395P, 871P,  
1175, 1176, 1179.
- 953-1011-1025-1193-1333.  
Phosphonium iodide, ethyltrixyl-;  $C_6H_5[(CH_2)_2C_6H_5]_2-  
PI$ .  
T as mothproofing agent. 110, 394P, 395P, 871P,  
1175, 1176, 1179.
- 953-1011-1193-1276.  
Phosphonium bromide, ethyltriphenyl-;  $C_6H_5(C_6H_5)_2-  
PBr$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P,  
1175, 1176, 1179.
- 953-1011-1193-1333.  
Phosphonium iodide, ethyltriphenyl-;  $C_6H_5(C_6H_5)_2PI$ .  
NT Mexican bean beetle. 110, 606.
- 953-1021.  
Methane, triphenyl-;  $(C_6H_5)_3CH$ .  
T clothes moth; NT screwworms, silkworms, and  
*Melanoplus m. mexicanus*. 156, 561, 1175, 1467P.
- 953-1021-1193-1291.  
Phosphonium chloride, methyltriphenyl-;  $CH_3(C_6H_5)_3-  
P^+Cl^-$ .  
MT Mexican bean beetle. 606.
- 953-1021-1193-1333.  
Phosphonium iodide, methyltriphenyl-;  $CH_3(C_6H_5)_3-  
PI$ .  
MT Mexican bean beetle and T moths. 110, 394P,  
395P, 606, 867P, 871P, 1175, 1176, 1179.
- 953-1023-1111.  
Stibine, tribenzyl-;  $(C_6H_5CH_2)_3Sb$ .  
T as mothproofing agent. 639P, 1175.
- 953-1023-1111.  
Stibine tri-o-tolyl-;  $(CH_3C_6H_4)_3Sb$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175,  
1176.
- 953-1023-1111.  
Stibine, tri-p-tolyl-;  $(CH_3C_6H_4)_3Sb$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175,  
1176.
- 953-1023-1113.  
Arsine, tribenzyl-;  $(C_6H_5CH_2)_3As$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175,  
1176.
- 953-1023-1119.  
Bismuthine, tri-p-tolyl-;  $(CH_3C_6H_4)_3Bi$ . (p-Bismuth  
tritolyl; bismuth tri-p-tolyl).  
T as mothproofing agent. 463P, 639P, 641P, 1175,  
1176.
- 953-1023-1193.  
Phosphine, tri-p-tolyl-;  $(CH_3C_6H_4)_3P$ .  
T as mothproofing agent. 463P, 639P, 641P, 1176.

- 953-1023-1193-1350.  
Phosphine oxide, tri-*o*-tolyl-;  $(C_6H_5CH_3)_3PO$ .  
T as mothproofing agent. 404P, 1175.
- 953-1023-1193-1350.  
Phosphine oxide, tri-*p*-tolyl-;  $(C_6H_5CH_3)_3PO$ ?  
T as mothproofing agent. 639P, 1175.
- 953-1023-1235-1291.  
Tin chloride, tribenzyl-;  $(C_6H_5CH_2)_3SnCl$ .  
T clothes moth. 640P.
- 953-1111.  
Stibine, triphenyl-;  $(C_6H_5)_3Sb$ .  
T as mothproofing agent; NT silkworm. 463P, 561, 639P, 641P, 915, 1175, 1176.
- 953-1111-1350.  
Stibine oxide, triphenyl-;  $(C_6H_5)_3SbO$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175.
- 953-1113.  
Arsine, triphenyl-;  $(C_6H_5)_3As$ .  
T as mothproofing agent; ST silkworm; NT codling moth. 463P, 561, 639P, 641P, 930, 1175, 1176.
- 953-1113-1325.  
Arsine dihydroxide, triphenyl-;  $(C_6H_5)_3As(OH)_3$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 953-1113-1291.  
Bismuthine, triphenyl-, dichloride;  $(C_6H_5)_3BiCl_2$ .  
NT silkworm. 561.
- 953-1119.  
Bismuthine, triphenyl-;  $(C_6H_5)_3Bi$ . (Bismuth triphenyl; triphenylbismut).  
T as mothproofing agent; NT silkworm larvae. 463P, 561, 639P, 641P, 1175, 1176.
- 953-1167-1405.  
Lead thiocyanate, triphenyl-;  $(C_6H_5)_3PbSCN$ ?  
T many insects as spray. 161P.
- 953-1193.  
Phosphine, triphenyl-;  $(C_6H_5)_3P$ .  
T codling moth and 20-90% T Mexican bean beetle. 606, 915.
- 953-1193-1325.  
Phosphine dihydroxide, triphenyl-;  $(C_6H_5)_3P(OH)_3$ .  
T as mothproofing agent. 463P, 639P, 1175, 1176.
- 953-1193-1350.  
Phosphine oxide, triphenyl-;  $(C_6H_5)_3PO$ .  
T as mothproofing and MT Mexican bean beetle. 404P, 463P, 606, 870P, 1175, 1176.
- 953-1193-1378.  
Phosphine selenide, triphenyl;  $P(C_6H_5)_3Se$ .  
NT Mexican bean beetle. 606.
- 953-1193-1392.  
Phosphine sulfide, triphenyl-;  $(C_6H_5)_3PS$ .  
ST codling moth at 4%; NT greenhouse red spider at 4%. 1481.
954.  
Benzene, 1,3,5-triphenyl-;  $(C_6H_5)_3C_6H_6$ .  
98% T codling moth; NT screwworms and *Bombyx mori*. 156, 561.
- 954-1021-1193-1289.  
Phosphonium perchlorate, benzyltriphenyl-;  $C_6H_5CH_2-(C_6H_5)_3PClO_4$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 954-1021-1193-1291.  
Phosphonium chloride, benzyltriphenyl-;  $C_6H_5CH_2-(C_6H_5)_3PCl$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 954-1021-1193-1303.  
Phosphonium cyanide, benzyltriphenyl-;  $C_6H_5CH_2-(C_6H_5)_3PCN$ . (Benzyltriphenyl phosphoniumcyanid).  
T as mothproofing agent. 867P, 1175.
- 954-1021-1193-1312.  
Phosphonium fluoride, benzyltriphenyl-;  $C_6H_5CH_2-(C_6H_5)_3PF$ . (Benzyltriphenylphosphoniumfluorid).  
T as mothproofing agent. 867P, 1175.
- 954-1021-1193-1341.  
Phosphonium nitrate, benzyltriphenyl-;  $C_6H_5CH_2-(C_6H_5)_3PNO_3$ .  
T as mothproofing agent. 394P, 395P, 871P, 1175, 1176, 1179.
- 954-1021-1193-1405.  
Phosphonium thiocyanate, benzyltriphenyl-;  $C_6H_5CH_2-(C_6H_5)_3PSCN$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 954-1023-1235.  
Tin, phenyl-, tribenzyl-;  $(C_6H_5CH_2)_3SnC_6H_5$ . (Tri-benzylated phenylated tin).  
T clothes moth. 640P.
- 954-1024-1235.  
Tin, tetrabenzyl-;  $(C_6H_5CH_2)_4Sn$ .  
T as mothproofing agent. 433P, 463P, 640P, 641P, 1175, 1176.
- 954-1113-1350.  
Arsenic oxide, bis(diphenyl)-;  $(C_6H_5)_2AsOAs(C_6H_5)_2$ . (Diphenyl arsenious oxide).  
HT *Bombyx mori* and HT tent caterpillar at 0.5%. 119, 561.
- 954-1193-1276.  
Phosphonium bromide, tetraphenyl-;  $(C_6H_5)_4PBr$ .  
T as mothproofing agent. 394P, 395P, 867P, 1175, 1176, 1179.
- 954-1235.  
Tin, tetraphenyl-;  $(C_6H_5)_4Sn$ .  
T as mothproofing agent. 433P, 463P, 640P, 641P, 1175, 1176.
- 955-999-1193-1276.  
Phosphonium bromide, pentamethylenebis(triphenyl-;  $(Br)(C_6H_5)_3PCH_2(CH_2)_3CH_2P(C_6H_5)_3(Br)$ . (Phosphonium bromide, pentamethylene di-triphenyl).  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 955-1011-1193-1276.  
Phosphonium bromide, ethylenebis(triphenyl-;  $(Br)(C_6H_5)_3PCH_2CH_2P(C_6H_5)_3(Br)$ .  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
- 955-1022-1193-1276.  
Phosphonium bromide, *p*-xylylenebis(triphenyl-;  $(Br)(C_6H_5)_3PCH_2C_6H_4CH_2P(C_6H_5)_3(Br)$ . (Phosphonium bromide, *p*-xylylene-di-triphenyl).  
T as mothproofing agent. 394P, 395P, 867P, 871P, 1175, 1176, 1179.
956.  
Dicyclohexadiene;  $C_6H_7C_6H_7$ .  
T houseflies. 1276.
- 956-1003-1021.  
Phellandrene;  $CH_3C_6H_9CH(CH_3)_2$ .  
NT wireworms at 421.5 mg./l. 846.
957.  
Cyclohexene;  $C_6H_{10}$ . (1,2,3,4-Tetrahydrobenzene). 124P.
- 957-1003-1021-1030.  
Limonene;  $CH_3C_6H_8C(CH_3)CH_3$ . (1,8(9)-*p*-Menthadiene; dipentene).  
T *Lucilia cuprina* larvae; attractant for codling moth and oriental peach moth; ST wireworms; NT houseflies. 564P, 846, 849, 1094, 1276, 1423A.
- 957-1003-1021-1030.  
Terpenes, CU.  
T as mothproofing agent. 1137P, 1175.
- 957-1021.  
Cyclohexene, 3-methyl-;  $C_6H_{11}CH_3$ .  
NT red scale. 268.
961.  
Cyclohexane;  $C_6H_{12}$ . (Hexahydrobenzene; hexamethylene).  
T *Lucilia cuprina* larvae and *Aphis rumicis*; NT screwworms. 156, 268, 849, 1152.
- 961-1021.  
Cyclohexane, methyl-;  $CH_3C_6H_{11}$ . (Cyclohexylmethane).  
NT screwworms and *Aphis rumicis*. 156, 1153.
- 975-1021.  
Methane, diaryl-, CU;  $R_2CH_4$ .  
T as mothproofing agent. 434P, 1175.
- 975-1021.  
Methanes, tri-aryl-, CU;  $R_3CH$ .  
T as mothproofing agent. 434P, 1175.
- 975-1027.  
Aralkyl compounds, CU.  
T clothes moth. 413P, 1175.
- 975-1193-1350.  
Phosphine oxides, triaryl-, CU;  $R_3PO$ ?  
T as mothproofing agent. 870P, 1175.
- 975-1388.  
Stannic acid, esters, CU. (Stannates). 186P.
- 975-1388-1392?  
Sulfostannic acid, esters, CU? (Sulfostannates). 186P.

- 975-1435.  
Zincates, organic, CU. 186P.
- 983-1030-1218-1389.  
9-Octadecenyl sodium sulfate;  $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{CH}_2\text{SO}_3\text{Na}$ . (Sulfate, oleyl sodium).  
T red-legged grasshopper, Mexican mealybugs, cabbage aphid, common red spider, and mosquito larvae. 255, 554, 1401, 1432.
- 983-1218-1389.  
Octadecyl sodium sulfate;  $\text{C}_{18}\text{H}_{37}\text{SO}_3\text{Na}$ .  
T several species of insects. 255, 554, 1401, 1432.
- 989-1218-1389.  
Dodecyl sodium sulfate;  $\text{C}_{12}\text{H}_{25}\text{SO}_3\text{Na}$ . (Sodium lauryl sulfate; Orvus; Gardinol).  
T red-legged grasshopper, Mexican mealybug, cabbage aphid, common red spider, mosquito larvae, boxelder bug, and apple aphid; NT *Melanoplus m. mexicanus*. 255, 294, 554, 1150, 1401, 1432.
- 989-1356.  
Dodecyl phosphate;  $(\text{C}_{12}\text{H}_{25})_2\text{PO}_4$ .  
Fly spray. 107P, 112.
- 989-1389.  
Dodecyl sulfate;  $(\text{C}_{12}\text{H}_{25})_2\text{SO}_4$ .  
Fly spray. 107P, 112.
991.  
Octane, 2,7-dimethyl-;  $(\text{CH}_3)_2\text{CH}(\text{CH}_2)_4\text{CH}(\text{CH}_3)_2$ . (Decane).  
NT rice weevil. 1180.
- 991-1030.  
3-Hexene, 2,2,5,5-tetramethyl-;  $(\text{CH}_3)_2\text{CCH}=\text{CHC}(\text{CH}_3)_2$ . (Diisobutylene).  
100% T rice weevil; ST red scale. 268, 1180.
993.  
Pentane, 2,2,4-trimethyl-;  $(\text{CH}_3)_2\text{CCH}_2\text{CH}(\text{CH}_3)_2$ . Isobutane; isobutyltrimethylmethane).  
NT red scale. 268.
993.  
Octane;  $\text{C}_8\text{H}_{18}$ .  
60% T rice weevil; NT red scale. 268, 1180.
- 993-1030.  
Octene;  $\text{C}_8\text{H}_{16}$ . (Octylene; caprylene).  
70% rice weevil. 1180.
995.  
Heptane;  $\text{C}_7\text{H}_{16}$ .  
100% T rice weevil. 1180.
997.  
Hexane;  $\text{C}_6\text{H}_{14}$ .  
60% T rice weevil. 1180.
999.  
Pentane;  $\text{C}_5\text{H}_{12}$ .  
40% T rice weevil and bees; NT red scale. 268, 1012, 1180.
999.  
Butane, 2-methyl-;  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_3$ . (Isopentane; ethyldimethylmethane).  
NT red scale. 268.
- 999-1002-1356.  
Phosphoric acid, amyl dibutyl ester;  $\text{C}_5\text{H}_{11}(\text{C}_4\text{H}_9)_2\text{PO}_4$ . (Amyl dibutyl phosphate).  
T as mothproofing agent. 440P, 1179.
- 999-1030.  
Pentene;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}=\text{CH}_2$ . (Amylene; propylethylene).  
NT rice weevil and red scale. 268, 1180.
- 999-1030.  
2-Butene, 3-methyl-;  $(\text{CH}_3)_2\text{C}=\text{CHCH}_3$ . (Trimethylethylene;  $\beta$ -isooamylenes).  
40% T rice weevil; NT red scale. 268, 1180.
- 999-1341.  
Amyl nitrate;  $\text{C}_5\text{H}_{11}\text{NO}_2$ .  
T Agriotes and *Leptinotarsa decemlineata*. 1009, 1382.
- 999-1341.  
Isoamyl nitrate;  $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{NO}_2$ . ( $\gamma$ -Methylbutyl nitrate).  
100% T rice weevil; MT codling moth; NT *Chrysomphalus aurantii*. 268, 915, 1180.
- 999-1356.  
Triisooamyl phosphate;  $(\text{C}_5\text{H}_{11})_3\text{PO}_4$ .  
T as mothproofing agent. 440P, 1179.
- 1001-1113.  
Butane arsonic acid;  $\text{C}_4\text{H}_9\text{AsO}(\text{OH})_2$ . (*n*-Butyl arsonic acid).  
T sodling moth. 915.
- 1001-1356.  
Dibutylphosphate;  $(\text{C}_4\text{H}_9)_2\text{HPO}_4$ .  
T as mothproofing agent. 440P, 1179.
- 1001-1356.  
Tributyl phosphate;  $(\text{C}_4\text{H}_9)_3\text{PO}_4$ .  
T as mothproofing agent. 440P, 446P, 1179.
- 1002-1193-1389.  
Phosphonium sulphate, tetraisobutyl-;  $(\text{C}_4\text{H}_9)_4\text{PSO}_4$ .  
T as mothproofing agent. 394P, 395P, 871P, 1175, 1176, 1179.
- 1003-1030-1286.  
Carbonic acid, diallyl ester;  $(\text{CH}_2=\text{CHCH}_2)_2\text{CO}_2$ . (Carbonate, diallyl).  
T houseflies. 1276.
- 1003-1261.  
Propane, 1,2,3-triarsic-;  $\text{CH}_3(\text{AsO})_2\text{CH}(\text{AsO})_2\text{CH}_3$ . ( $\text{AsO}_2$ ). (Monoglycerol-tri-meta-arsenite). 1132P.
- 1003-1270.  
Glycerol diborate;  $(\text{C}_3\text{H}_5\text{BO}_2)_2$ . (Glycerine diborate).  
ST *Lucilia cuprina*, *L. sericata*, and *Calliphora vicina*. 918.
- 1011-1040.  
Acetylene;  $\text{HC}\equiv\text{CH}$ . (Ethyne; ethine).  
NT red scale. 268.
- 1011-1113-1126.  
Calcium arsenate, ethyl-;  $\text{Ca}(\text{C}_2\text{H}_5)_2\text{AsO}_4$ . (Calcium ethyl arsonate).  
HT tent caterpillar at 0.1%. 119.
- 1011-1177-1254.  
Mercury arsenate, ethyl-;  $(\text{C}_2\text{H}_5\text{Hg})_2\text{AsO}_4$ . 302P.
- 1011-1177-1303.  
Mercury cyanide, ethyl-;  $\text{C}_2\text{H}_5\text{HgCN}$ . 302P.
- 1011-1177-1356.  
Mercury phosphate, ethyl-;  $(\text{C}_2\text{H}_5\text{Hg})_2\text{PO}_4$ . 302P.
- 1011-1341.  
Ethyl nitrate;  $\text{C}_2\text{H}_5\text{NO}_2$ . (Nitric ether).  
T *Sitophilus oryzae*; NT red scale. 268, 1180.
- 1011-1343.  
Ethyl nitrite;  $\text{C}_2\text{H}_5\text{NO}$ .  
ST *Chrysomphalus aurantii*. 268.
- 1011-1356.  
Triethyl phosphate;  $(\text{C}_2\text{H}_5)_3\text{PO}_4$ .  
T as mothproofing agent. 440P, 1179.
- 1011-1393.  
Ethyl sulphite;  $(\text{CH}_3\text{CH}_2)_2\text{SO}_3$ . (Diethyl sulfite).  
T *Sitophilus oryzae* m.l.d. is 108 mg./l. 1178, 1180.
- 1012-1119-1276.  
Bismuthine, bromodiethyl-;  $(\text{C}_2\text{H}_5)_2\text{BiBr}$ ? (Diethyl bismuth bromide).  
T as mothproofing agent. 463P, 639P, 1175, 1176.
- 1012-1378.  
Ethyl selenide;  $(\text{C}_2\text{H}_5)_2\text{Se}$ . (Diethyl selenide).  
100% T rice weevil. 1180.
- 1013-1111-1291.  
Stibine, dichlorotriethyl-;  $(\text{C}_2\text{H}_5)_3\text{SbCl}_2$ . (Stibine dichloride, triethyl).  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 1013-1119-1276.  
Bismuthine, bromotriethyl-;  $(\text{C}_2\text{H}_5)_3\text{BiBr}$ . (Bismuth bromide, triethyl).  
T as mothproofing agent. 463P, 639P, 1175, 1176.
- 1013-1167-1303.  
Lead cyanide, triethyl-;  $(\text{C}_2\text{H}_5)_3\text{PbCN}$ .  
T many insects as spray. 161P.
- 1013-1167-1341.  
Lead nitrate, triethyl-;  $(\text{C}_2\text{H}_5)_3\text{PbNO}_3$ .  
T many insects as spray. 161P.
- 1013-1167-1405.  
Lead thiocyanate, triethyl-;  $(\text{C}_2\text{H}_5)_3\text{PbSCN}$ .  
T many insects as spray. 161P.
- 1013-1167-1414.  
Lead thiosulphate, triethyl-;  $(\text{C}_2\text{H}_5)_3\text{PbHS}_2\text{O}_3$ ?  
T many insects as spray. 161P.
- 1013-1235-1312.  
Tin fluoride, triethyl-;  $(\text{C}_2\text{H}_5)_3\text{SnF}$ .  
T as mothproofing agent. 463P, 640P, 1176.
- 1014-1193-1333.  
Phosphonium iodide, tetraethyl-;  $(\text{C}_2\text{H}_5)_4\text{PI}$ .  
T moth or other animal or plant pest of animal fibers. 110, 394P, 395P, 871P, 1175, 1176, 1179.
- 1014-1235.  
Tin, tetraethyl-;  $(\text{C}_2\text{H}_5)_4\text{Sn}$ .  
T clothes moth. 640P.

1021.  
Methane;  $\text{CH}_4$ .  
NT *Culex pipiens*. 1012.
- 1021-1113-1136.  
Calcium arsenate, methyl-;  $\text{Ca}(\text{CH}_3)_2\text{AsO}_4$ . (Calcium methyl arsenate).  
NT tent caterpillar at 0.1%. 119
- 1021-1213-1301.  
Selenium cyanide, methyl-;  $\text{CH}_3\text{SeCN}$ . (Methyl selenocyanate).  
ST *Chrysomphalus aurantii*. 268.
- 1021-1343.  
Methyl nitrite;  $\text{CH}_3\text{NO}_2$ .  
ST *Chrysomphalus aurantii*. 268.  
Carbon dioxide—see 1123-1350.  
Carbon monoxide—see 1123-1350.
- 1021-1356.  
Trimethyl phosphate;  $(\text{CH}_3)_3\text{PO}_4$ .  
T as mothproofing agent. 440P, 1179.
- 1021-1389.  
Methyl sulphate;  $(\text{CH}_3)_2\text{SO}_4$ . (Dimethyl sulfate).  
T *Sitophilus oryzae* and *Hippodamia convergens*. 1110, 1178, 1180, 1432.
- 1022-1113.  
Cacodylic acid;  $(\text{CH}_3)_2\text{AsOOH}$ . (Dimethylarsinic acid).  
T *Aphis rumicis*. 1152.
- 1022-1113-1405.  
Thiocyanic acid, dimethyl arseno ester;  $(\text{CH}_3)_2\text{AsSCN}$ . 1178, 1245P.
- 1023-1111-1276.  
Stibine, dibromotrimethyl-;  $(\text{CH}_3)_3\text{SbBr}_2$ . (Stibine dibromide, trimethyl).  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 1023-1111-1291.  
Stibine, dichlorotrimethyl-;  $(\text{CH}_3)_3\text{SbCl}_2$ . (Stibine dichloride, trimethyl).  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 1023-1111-1389.  
Stibine sulphate, trimethyl-;  $(\text{CH}_3)_3\text{SbSO}_4$ .  
T as mothproofing agent. 463P, 639P, 641P, 1175, 1176.
- 1027-1313.  
Alkanes, fluorosulfonyl-, CU.  
Contains from 1 to 4 carbon atoms.  
T *Calandra granaria*, *Tenebrio molitor*, bedbugs, cockroaches, lice, flies, gnats, moths, fur-beetle, carpet beetle and its larvae, ants, plant lice, *Phylloxera*, and shield-lice. 1265P.
- 1027-1389.  
Sulfates, alkyl-.  
T boxelder bug, shield scale and soft scale. 58P, 920, 923, 1415, 1432.
1045.  
Hydrocarbon, liquid.  
T as mothproofing agent. 269P, 1175.
- 1045-1111.  
Aryl antimonates, CU. 186P.
- 1045-1187-1405.  
Thiocyanic acid, trialkyllead derivatives, CU;  $\text{R}_3\text{PbCN}$ .  
HT as spray. 161P.
- 1045-1177-1450.  
Mercuri compounds, alkyl-;  $\text{RHgX}$ .  
The above formula where R is an unsubstituted aliphatic radical and X an acid radical. 302P.
- 1045-1193.  
Phosphoric acid, acyl esters.  
T as mothproofing agent. 867P, 1175.
- 1045-1193-1450.  
Phosphonium compounds, CU.  
T as mothproofing agent. 423P, 431P, 441P, 867P, 1175, 1179, 1360P.
- 1045-1246.  
Metallo-organic compounds, CU.  
T as mothproofing agent. 639P, 1175.
- 1045-1296.  
Aryl chromates, CU. 186P.
- 1045-1296-1340.  
Aryl chromiumoxybdates, sodium salts, CU. (Na chromoxybdate derivative of phenolic compound). 186P.
- 1045-1313.  
Fluocilicates, organic, CU. 1225P.
- 1045-1356.  
Phosphoric acid, ester, CU.  
T as mothproofing agent. 440P, 1179, 1458P.
- 1045-1389.  
Sulfates, organic. 243, 1432.
- 1106-1196-1389.  
Alum;  $\text{K}_2\text{Al}_2(\text{SO}_4)_4 \cdot 24\text{H}_2\text{O}$ . (Alum flour; alum meal; alumen; alumnite (native); common alum; cube alum; octahedral alum salt; potash alum; potassil alumini sulphas; sulphate of aluminum and potassium).  
T *Lucilia cuprina*, *L. sericata*, *Calliphora Stygia*, cockroaches, and as mothproofing agent; NT *Tineola bisellialis* and *Attageus piceus*. 337P, 739, 833P, 918, 938P, 975P, 978P, 980P, 982P, 983P, 984P, 1166P, 1167P, 1176, 1179, 1268.
- 1106-1218-1313.  
Aluminum sodium fluosilicate. (Larvae).  
T as mothproofing agent. 585P, 659, 1176, 1179, 1217, 1219, 1221.
- 1106-1254.  
Aluminum arsenate;  $\text{AlAsO}_4 \cdot 8\text{H}_2\text{O}$ .  
T *Popillia japonica* and *Lucilia cuprina* larvae; NT codling moth. 493A, 849, 915.
- 1106-1310.  
Ammonium fluoaluminate;  $(\text{NH}_4)_3\text{AlF}_6$ . (Aluminum ammonium fluoaluminate).  
T *Bombyx mori* and as mothproofing agent. 938P, 1176, 1277.
- 1106-1312.  
Aluminum fluoride;  $\text{AlF}_3$ .  
T clothes moth. 188P, 327P, 337P, 467P, 643P, 739, 868P, 936P, 938P, 1175, 1176, 1416P, 1417P.
- 1106-1313.  
Aluminum fluosilicate;  $\text{Al}_2(\text{SiF}_6)_3$ . (Aluminum silico-fluoride).  
T as mothproofing agent. 45, 120A, 978P, 983P, 1176.
- 1106-1325.  
Aluminum hydroxide;  $\text{Al}(\text{OH})_3$ .  
T as mothproofing agent. 615P, 1176.
- 1106-1389.  
Aluminum sulphate;  $\text{Al}_2(\text{SO}_4)_3$ . (Alumini sulphas; aluminic sulphate; cake alum; concentrated alum; neutral sulphate of aluminum; patent alum; sesquihalphate of aluminum; vitriolate of aluminum).  
T aphids and as mothproofing agent; NT clothes moth (739). 175, 327P, 739, 936P, 938P, 975P, 978P, 982P, 983P, 1164P, 1167P, 1175, 1176, 1416P, 1417P.
- 1106-1450.  
Aluminum salts, CU.  
T as mothproofing agent. 338P, 339P, 1166P, 1167P, 1176, 1179, 1416.
1108.  
Ammonia;  $\text{NH}_3$ .  
T wireworms, grain weevil, and as mothproofing agent; NT clothes moth (739). 268, 269P, 488, 739, 1175, 1176, 1396, 1488P.
- 1108-1109-1136-1405.  
Reinecke salt;  $[\text{NH}_4(\text{NH}_2)_2\text{Cr}(\text{SCN})_4 \cdot \text{H}_2\text{O}]$ . (Ammonium tetrathiocyanato diammino chromium).  
HT apple maggot fly and two other species of fruit flies; T Mexican bean beetle and Colorado potato beetle. 606, 1144, 1432.
- 1108-1136-1142-1405.  
Reinecke acid, cuprous salt;  $\text{Cu}[(\text{NH}_2)_2\text{Cr}(\text{SCN})_4]_2$ . (Cuprous tetrathiocyanato diammino chromium).  
ST Mexican bean beetle. 606.
- 1109-1138-1389.  
Ammonium cobaltous sulfate;  $\text{CoSO}_4(\text{NH}_4)_2\text{SO}_4$ .  
NT tobacco worm moth. 533.
- 1109-1142-1312.  
Ammonium cupric fluoride;  $\text{CuF}_2 \cdot 2\text{NH}_4\text{F}$ .  
NT tobacco worm moth. 553.
- 1109-1142-1325.  
Copper ammonium hydroxide.  
T as mothproofing agent. 953P, 1179.
- 1109-1196-1212-1392.  
Ammonium potassium selenosulfide;  $(\text{KNH}_4\text{S})_2\text{Se}$ . (Selenide).  
T red spiders. 113, 564P, 565.

- 1109-1196-1312.  
Ammonium potassium fluoride.  
T as mothproofing agent. 1175, 1357P.
- 1109-1212-1218-1392.  
Ammonium sodium selenosulfide;  $(\text{NaNH}_2\text{S})_2\text{Se}$ ?  
T red spiders. 564P.
- 1109-1212-1392.  
Ammonium selenosulphide;  $[(\text{NH}_4)_2\text{S}]_2\text{Se}$ .  
T red spiders. 562P.
- 1109-1312.  
Ammonium fluoride;  $\text{NH}_4\text{F}$ .  
T as mothproofing agent; NT *Tineola biselliella* and *Attagenus piceus* (739). 327P, 633P, 739, 823P, 1175, 1176, 1416P, 1417P.
- 1109-1312.  
Ammonium hydrogen fluoride;  $\text{NH}_4\text{HF}_2$ . (Ammonium bifluoride).  
T *Melanoplus m. mexicanus* and as mothproofing agent. 396P, 400P, 461P, 468P, 1150, 1175, 1176, 1356P, 1357P.
- 1109-1314.  
Ammonium fluosulphonate;  $\text{NH}_4\text{SO}_3\text{F}$ .  
T as mothproofing agent. 823P, 1176.
- 1109-1315.  
Ammonium fluotitanate;  $(\text{NH}_4)_2\text{TiF}_6$ .  
T as mothproofing agent. 327P, 1176.
- 1109-1340.  
Ammonium molybdate;  $(\text{NH}_4)_2\text{MoO}_4$ .  
T as mothproofing agent; NT clothes moth (739). 327P, 335P, 739, 1176.
- 1109-1356.  
Ammonium phosphate;  $\text{NH}_4\text{H}_2\text{PO}_4$ .  
NT *Tineola biselliella* and *Attagenus piceus*. 739.
- 1109-1376.  
Ammonium selenate;  $(\text{NH}_4)_2\text{SeO}_4$ .  
T clothes moth. 399P, 419P, 429P, 679P, 1175.
- 1109-1380.  
Ammonium selenite;  $(\text{NH}_4)_2\text{SeO}_3$ .  
T as mothproofing agent. 399P, 419P, 429P, 679P, 1175, 1361P.
- 1109-1389.  
Ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4$ .  
T *Lachnosterna grubei* and as mothproofing agent; NT *Popillia japonica*. 240, 493A, 823P, 1176.
- 1109-1392.  
Ammonium sulphide;  $(\text{NH}_4)_2\text{S}$ .  
T oriental peach moth. 861.
- 1109-1450.  
Ammonium salts, CU.  
T as mothproofing agent. 823P, 1176.
- 1110-1218-1312.  
Antimony sodium fluoride;  $\text{Na}_2\text{SbF}_6$ .  
T as mothproofing agent. 906.
- 1110-1291.  
Antimony trichloride;  $\text{SbCl}_3$ .  
NT Mediterranean fruit fly. 903.
- 1110-1312.  
Antimony fluoride;  $\text{SbF}_3$ ?  
T as mothproofing agent. 883P, 1179.
- 1110-1350.  
Antimony trioxide;  $\text{Sb}_2\text{O}_3$ .  
ST *Spilosoma lubricipeda*; NT *Melanoplus m. mexicanus*. 635, 1150.
- 1110-1350.  
Antimony pentoxide;  $\text{Sb}_2\text{O}_5$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1110-1392.  
Antimony sulphide;  $\text{Sb}_2\text{S}_3$ .  
NT Japanese beetle and codling moth. 915, 1008.
- 1110-1420.  
Antimomolybdate acid.  
T as mothproofing agent. 327P, 329P, 335P, 1176.
- 1110-1450.  
Antimony salts, CU.  
T as mothproofing agent. 77P, 339P, 1036P, 1037P, 1166P, 1176, 1179.
1112.  
Arsine;  $\text{AsH}_3$ . (Arsenic trihydride).  
T *Hippodamia convergens*. 1041, 1110.
- 1112-1218-1420.  
Sodium arsenotungstate, CU. 186P.
- 1112-1291.  
Arsenic trichloride;  $\text{AsCl}_3$ .  
ST *Chrysomphalus aurantii*. 268.
- 1112-1350.  
Arsenic trioxide;  $\text{As}_2\text{O}_3$ . (Acidum arsenosum; anhydrous arsenous acid; anhydrous arsenious; arseni trioxidum; arsenic blanc; arsenic oxidum; arsenicum album; arsenious acid; arsenious anhydride; arsenious oxide; arsenolite (native); flowers of arsenic; metallum album; poison flour).  
T *Phyllophaga lanestra* and as mothproofing agent; poison baits for many insects; NT clothes moth (44, 45). 44, 45, 269P, 807P, 849, 1025, 1030, 1175, 1176, 1179, 1270P, 1343P, 1410.
- 1112-1350.  
Arsenic pentoxide;  $\text{As}_2\text{O}_5$ .  
T *Lucilia cuprina* larvae and many species of insects. 185, 486, 849, 1065.
- 1112-1392.  
Arsenious sulfide;  $\text{As}_2\text{S}_3$ .  
NT *Popillia japonica*. 493A.
- 1112-1450.  
Arsenic salts, CU.  
T as mothproofing agent. 43, 976P, 1024, 1133P, 1176, 1179, 1367P.
- 1114-1254.  
Barium arsenate;  $\text{Ba}_3(\text{AsO}_4)_2$ .  
T various *Lepidopterous* larvae and 50% T *Popillia japonica*. 249, 493A.
- 1114-1290.  
Barium arsenite;  $\text{Ba}_3(\text{AsO}_3)_2$ ?  
T *Lucilia cuprina* larvae. 849.
- 1114-1270.  
Barium borate;  $\text{Ba}(\text{BO}_2)_2$ . 1115P.
- 1114-1274.  
Barium bromate;  $\text{Ba}(\text{BrO}_3)_2 \cdot \text{H}_2\text{O}$ .  
36% T firebrat. 1145.
- 1114-1276.  
Barium bromide;  $\text{BaBr}_2$ .  
NT firebrat. 1145.
- 1114-1286.  
Barium carbonate;  $\text{BaCO}_3$ .  
T firebrat, *Malacosoma americana*, and codling moth; NT Mediterranean fruit fly. 915, 963, 1008, 1144, 1145.
- 1114-1288.  
Barium chlorate;  $\text{Ba}(\text{ClO}_3)_2 \cdot \text{H}_2\text{O}$ .  
NT firebrat. 1145.
- 1114-1289.  
Barium perchlorate;  $\text{Ba}(\text{ClO}_4)_2$ .  
NT firebrat. 1145.
- 1114-1291.  
Barium chloride;  $\text{BaCl}_2$ .  
T *Lucilia cuprina* larvae at 0.1%; ST firebrat. 175, 849, 1145.
- 1114-1296.  
Barium chromate;  $\text{BaCrO}_4$ .  
NT firebrat, *Melanoplus m. mexicanus*, and *Malacosoma americana*. 1008, 1145, 1150.
- 1114-1312.  
Barium fluoride;  $\text{BaF}_2$ .  
T *Rhagoletis completa*, *Malacosoma americana*, and 35% T firebrat. 114, 1008, 1145.
- 1114-1313.  
Barium fluosilicate;  $\text{BaSiF}_6$ .  
91% T firebrat and T *Lucilia cuprina* larvae. 133, 310, 849, 1145, 1277.
- 1114-1325.  
Barium hydroxide;  $\text{Ba}(\text{OH})_2$ .  
T codling moth and 26% T firebrat. 915, 1145.
- 1114-1330.  
Barium iodate;  $\text{Ba}(\text{IO}_3)_2$ .  
14% T firebrat. 1145.
- 1114-1333.  
Barium iodide;  $\text{BaI}_2 \cdot 2\text{H}_2\text{O}$ .  
NT firebrat. 1145.
- 1114-1341.  
Barium nitrate;  $\text{Ba}(\text{NO}_3)_2$ .  
NT firebrat. 1145.
- 1114-1350.  
Barium oxide;  $\text{BaO}$ .  
22% T firebrat. 1145.
- 1114-1351.  
Barium peroxide;  $\text{BaO}_2$ .  
56% T firebrat. 1144, 1145.
- 1114-1356.  
Barium hydrogen phosphate;  $\text{BaHPO}_4$ . (Barium diphosphate).



- NT firebrat. 1145.  
1114-1356.  
Barium triphosphate;  $\text{Ba}_3(\text{PO}_4)_2$ .  
MT firebrat. 1144, 1145.  
1114-1356.  
Barium phosphate, CU.  
NT *Bombyx mori* larvae. 561.  
1114-1356.  
Barium sulfate;  $\text{BaSO}_4$ .  
NT firebrat, cockroach, and *Malacosoma americana*.  
1008, 1145, 1268.  
1114-1356.  
Barium sulfide;  $\text{BaS}$ .  
NT firebrat. 1145.  
1114-1414.  
Barium thiosulfate;  $\text{BaS}_2\text{O}_3$ .  
NT firebrat and *Melanoplus m. mexicanus*. 1145, 1150.  
1114-1450.  
Barium salts, CU.  
T as mothproofing agent. 422P, 430P, 1175.  
1116-1450.  
Beryllium salts, CU. (Glucinum salts).  
T as mothproofing agent. 103P, 1179.  
1118-1286.  
Bismuth carbonate;  $\text{Bi}(\text{CO}_3)_2$ .  
NT Japanese beetle. 1008.  
1118-1286-1350.  
Bismuth subcarbonate;  $\text{Bi}_2\text{O}_3 \cdot \text{CO}_2 \cdot \text{H}_2\text{O}$ .  
NT *Melanoplus m. mexicanus*. 1150.  
1118-1291.  
Bismuth trichloride;  $\text{BiCl}_3$ .  
T Mediterranean fruit fly. 963.  
1118-1291.  
Bismuth oxychloride;  $\text{BiOCl}$ .  
NT *Melanoplus m. mexicanus*. 1150.  
1118-1341.  
Bismuth oxynitrate;  $\text{BiONO}_3$ . (Bismuth nitrate, basic; bismuth subnitrate; bismuth white; bismuthi oxynitras; bismuthi subnitras; bismuthum album; bismuthyl nitrate; flake white; paint white; pearl white; Spanish white; magistery of bismuth; oxynitrate of bismuth).  
T clothes moth; NT *Melanoplus m. mexicanus*. 1150, 1176, 1270P.  
1118-1350.  
Bismuth trioxide;  $\text{Bi}_2\text{O}_3$ .  
NT *Melanoplus m. mexicanus*. 1150.  
1118-1450.  
Bismuth, water soluble salts of, CU.  
T as mothproofing agent. 758P, 1176.  
1118-1450.  
Bismuth salts, CU.  
T as mothproofing agent. 756P, 1175.  
1120-1312.  
Boron fluoride;  $\text{BF}_3$ .  
T as mothproofing agent. 396P, 400P, 1175, 1400P.  
1120-1312.  
Boron trifluoride;  $\text{BF}_3$ .  
HT grain weevil, bean weevil, bedbugs, and as mothproofing agent. 894, 1175, 1241P, 1242P.  
1124-1276.  
Cadmium bromide;  $\text{CdBr}_2 \cdot 4\text{H}_2\text{O}$ .  
T Mediterranean fruit fly. 963.  
1124-1286.  
Cadmium carbonate;  $\text{CdCO}_3$ .  
NT *Bombyx mori* larvae. 561.  
1124-1291.  
Cadmium chloride;  $\text{CdCl}_2$ .  
85% T *Bombyx mori* larvae and T *Lucilia cuprina* larvae at 0.01%; NT *Melanoplus m. mexicanus* 561, 849, 1150.  
1124-1325.  
Cadmium hydroxide;  $\text{Cd}(\text{OH})_2$ .  
100% T *Bombyx mori* larvae. 558, 561.  
1124-1341.  
Cadmium nitrate;  $\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$ .  
NT *Melanoplus m. mexicanus*. 1150.  
1124-1350.  
Cadmium oxide;  $\text{CdO}$ .  
85% T *Bombyx mori* larvae; NT *Melanoplus m. mexicanus*. 558, 561, 1150.  
1124-1356.  
Cadmium phosphate;  $\text{Cd}_3(\text{PO}_4)_2$ .  
75% T *Bombyx mori* larvae. 558, 561.  
1124-1389.  
Cadmium sulfate;  $\text{CdSO}_4$ .  
40% T *Bombyx mori* larvae; NT *Melanoplus m. mexicanus*. 561, 1150.  
1124-1392.  
Cadmium sulfide;  $\text{CdS}$ .  
50% T *Bombyx mori* larvae. 561.  
1126-1128-1291-1392.  
Calcium chloride-carbon disulfide compound;  $\text{CaCl}_2 \cdot \text{CS}_2$ ? 391P.  
1126-1142-1292.  
Calcium tetracuproxyl chloride? 96P.  
1126-1254.  
Calcium arsenate;  $\text{Ca}_3(\text{AsO}_4)_2$ .  
HT many insects; commonly used insecticide. 24, 493A, 677, 723, 881, 1349, 1371.  
1126-1260.  
Calcium arsenite;  $\text{Ca}_2(\text{AsO}_2)_2$ ?  
T *Lucilia cuprina* larvae. 849, 1370.  
1126-1270.  
Calcium borate;  $\text{Ca}(\text{BaO})_2$ .  
NT codling moth. 915.  
1126-1286.  
Calcium carbonate;  $\text{CaCO}_3$ . (Limestone).  
NT *Popillia japonica* and cockroach. 493A, 1268.  
1126-1291.  
Calcium chloride;  $\text{CaCl}_2$ . (Calcii chloridum; chloride of calcium; freazing salts; muriate of calcium; muriate of lime).  
T as mothproofing agent but injurious to fabric. 43, 1176.  
1126-1303.  
Calcium cyanide;  $(\text{Ca}(\text{CN})_2)$ .  
T many species of insects; ST Mediterranean fruit fly. 963, 1007, 1447.  
1126-1305.  
Calcium cyanamid;  $\text{CaCN}_2$ .  
NT *Popillia japonica* larvae. 493A.  
1126-1312.  
Calcium fluoride;  $\text{CaF}_2$ .  
ST Colorado potato beetle and *Rhagoletis completa*. 114, 895.  
1126-1313.  
Calcium fluosilicate;  $\text{CaSiF}_6$ .  
ST *Rhagoletis completa*. 114.  
1126-1325.  
Calcium hydroxide;  $\text{Ca}(\text{OH})_2$ . (Hydrated lime).  
HT *Calandra granaria*; T *Diabrotica duodecimpunctata*; NT *Popillia japonica*, clothes moth larvae, and cockroach. 42, 493A, 541, 753, 1147, 1176, 1268, 1396.  
1126-1350.  
Calcium oxide. (Burned lime; burnt lime; calcic oxide; calx; calx viva; caustic lime; lime; quicklime; unslaked lime).  
T as mothproofing agent (245P); NT clothes moth (1024, 1268), and cockroaches. 245P, 1024, 1176, 1268.  
1126-1356.  
Calcium hydrogen phosphate. (Acid phosphate, CU; calcium phosphate).  
NT *Popillia japonica* larvae. 493A.  
1126-1389.  
Calcium sulfate;  $\text{CaSO}_4$ . (Gypsum).  
T parasites harmful to vines and as mothproofing agent; ST spotted cucumber beetle; NT cockroach. 184P, 1147, 1179, 1268, 1490P.  
1126-1392.  
Calcium polysulfides. (Lime-sulfur).  
T spiders and many species of insects. 1064.  
1126-1450.  
Calcium salts, CU.  
NT as mothproofing agent. 422P, 430P, 1175.  
1128-1162-1350.  
Iron carbonyl;  $\text{Fe}(\text{CO})_5$ .  
NT *Chrysomphalus aurantii*. 268.  
Phosgene—see 331-1021.  
Thiophosgene—see 796-852-1021.  
Carbon tetrachloride—see 854-1021.  
1128-1350?  
Carbon monoxide;  $\text{CO}$ .  
T *Tribolium confusum*; NT *Chrysomphalus aurantii*. 968, 763.  
1128-1350.  
Carbon dioxide;  $\text{CO}_2$ .

- T. Musca domestica*; MT *Chrysomphalus aurantii*. 26, 260P, 268, 763, 1012.
- 1128-1392.  
Carbon disulfide;  $\text{CS}_2$ . (Carbon bisulfide).  
T many species of insects. 80, 256, 266, 267, 297P, 308, 309, 411P, 421P, 425P, 478, 497, 573, 705, 931, 925, 954, 960, 1029, 1044, 1075, 1083, 1186, 1271, 1278.
- 1130-1291.  
Cerium chloride;  $\text{CeCl}_3$ .  
T as mothproofing agent. 756P, 1175.
- 1130-1450.  
Cerium salts, CU.  
T as mothproofing agent. 739, 745P, 758P, 781P, 782P, 975P, 976P, 978P, 1176.
- 1136-1196-1389.  
Chromium potassium sulfate;  $\text{K}_2\text{SO}_4\text{Cr}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$ . (Chromium alum).  
T as mothproofing agent; NT *Melanoplus m. mexicanus*. 1150, 1166P, 1179.
- 1136-1292.  
Chromium oxychloride;  $\text{CrO}_2\text{Cl}_2$ . (Combined with other materials). 855P.
- 1136-1312.  
Chromium fluoride, CU?  $\text{CrF}_3$  or  $\text{CrF}_5$ .  
T as mothproofing agent; NT *Orthopodomyia signifer*. 882P, 883P, 884P, 895, 906, 1179.
- 1136-1350.  
Chromium oxide;  $\text{CrO}$ .  
NT *Melanoplus m. mexicanus*. 178P, 1150, 1432.
- 1136-1450.  
Chromium salts, CU.  
T as mothproofing agent. 327P, 338P, 339P, 1024, 1166P, 1167P, 1176, 1179.
- 1138-1254.  
Cobaltous arsenate;  $\text{Co}_3(\text{AsO}_4)_2$ .  
NT tobacco worm moth. 553.
- 1138-1291.  
Cobalt chloride;  $\text{CoCl}_2$ .  
T clothes moth; NT tobacco hornworms. 553, 1114P.
- 1138-1296.  
Cobaltous chromate;  $\text{CoCrO}_4$ .  
NT tobacco worm moth. 553.
- 1138-1341.  
Cobaltous nitrate;  $\text{Co}(\text{NO}_3)_2$ .  
NT tobacco worm moth. 553.
- 1138-1350.  
Cobalt oxide;  $\text{CoO}$ .  
NT tobacco worm moth. 553.
- 1138-1389.  
Cobaltous sulphate;  $\text{CoSO}_4$ .  
NT tobacco worm moth. 553.
- 1142-1254-1325.  
Copper arsenate, basic;  $(\text{Cu}(\text{CuOHAsO}_4))$ .  
T leafhopper, red mites, and chewing insects on beans and potatoes. 276.
- 1142-1260.  
Copper arsenite;  $\text{CuHAsO}_3$ .  
NT Mediterranean fruit fly. 963.
- 1142-1270.  
Copper borate;  $\text{Cu}_3(\text{BO}_3)_2$ .  
NT *Melanoplus m. mexicanus*. 482P, 1115P, 1150.
- 1142-1271.  
Cupric tetraborate;  $\text{CuB}_4\text{O}_7 \cdot 4\text{H}_2\text{O}$ . (Cupric borate).  
NT Mediterranean fruit fly. 963.
- 1142-1276.  
Copper bromide;  $\text{CuBr}_2$ .  
NT Mediterranean fruit fly. 963.
- 1142-1286-1325.  
Copper carbonate, basic;  $\text{CuCO}_3\text{Cu}(\text{OH})_2$ .  
ST Mediterranean fruit fly; NT *Melanoplus m. mexicanus*. 963, 1150.
- 1142-1291.  
Cuprous chloride;  $\text{Cu}_2\text{Cl}_2$ .  
T Mediterranean fruit fly. 963.
- 1142-1291.  
Cupric chloride;  $\text{CuCl}_2$ .  
NT Mediterranean fruit fly. 963.
- 1142-1303.  
Cuprous cyanide;  $\text{CuCN}$ .  
ST Japanese beetle. 271AP, 494.
- 1142-1303.  
Cupric cyanide;  $\text{Cu}(\text{CN})_2$ .  
ST Mediterranean fruit fly. 963.
- 1142-1305.  
Copper cyanamide (tech.);  $\text{CuCN}_2$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1142-1312.  
Cupric fluoride;  $\text{CuF}_2 \cdot 2\text{H}_2\text{O}$ .  
NT Mediterranean fruit fly. 963.
- 1142-1325.  
Copper hydroxide;  $\text{Cu}(\text{OH})_2$ .  
NT Mediterranean fruit fly. 963, 1262P.
- 1142-1333.  
Cuprous iodide;  $\text{CuI}$ .  
NT Japanese beetle. 1009.
- 1142-1341.  
Copper nitrate;  $\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$ .  
NT Mediterranean fruit fly and wireworms. 660, 963, 1396.
- 1142-1345.  
Copper nitroprusside;  $\text{CuFe}(\text{CN})_5\text{NO}$ .  
ST *Malacosoma americana*. 1009.
- 1142-1350.  
Copper oxide;  $\text{Cu}_2\text{O}$ . (Red oxide).  
T Mediterranean fruit fly and as mothproofing agent; NT Japanese beetle. 963, 1009, 1179, 1490P.
- 1142-1350-1389.  
Bordeaux mixture. (Basic copper sulfates).  
T leafhopper and Mediterranean fruit fly. 275, 963.
- 1142-1356.  
Copper phosphate;  $\text{Cu}_3(\text{PO}_4)_2$ .  
NT *Bombyx mori* larvae. 561.
- 1142-1389.  
Copper sulphate;  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ .  
T mosquito larvae and T *Lucilia cuprina* larvae at 0.1%; NT Mediterranean fruit fly, *Melanoplus m. mexicanus*, and tobacco worm moth. 175, 553, 849, 918, 963, 1144, 1150.
- 1142-1393.  
Copper sulphite;  $\text{Cu}_2\text{SO}_3 \cdot \text{H}_2\text{O}$ .  
NT Mediterranean fruit fly. 963.
- 1142-1405.  
Copper thiocyanate, CU.  
70% T Mexican bean beetle; MT codling moth larvae; NT Colorado potato beetle. 915, 929, 930, 1432.
- 1142-1405.  
Cuprous thiocyanate;  $\text{CuSCN}$ .  
NT Japanese beetle. 1009.
- 1142-1405.  
Cupric thiocyanate;  $\text{Cu}(\text{SCN})_2$ .  
T Mexican bean beetle. 606.
- 1142-1450.  
Copper salts, CU.  
T as mothproofing agent. 319P, 756P, 1024, 1175, 1176.
- 1162-1254.  
Ferric arsenate;  $\text{FeAsO}_4 \cdot 2\text{H}_2\text{O}$ .  
T codling moth and MT *Popillia japonica* as soil treatment. 493A, 712, 915.
- 1162-1286.  
Ferrous carbonate;  $\text{FeCO}_3$ . (Iron carbonate).  
T earwigs. 917P.
- 1162-1389.  
Ferrous sulphate;  $\text{FeSO}_4$ . (Copperas; ferri sulfas; ferrum vitriolatum; green vitriol; iron sulfate; iron vitriol; pretosulfate of iron; sal chalybidis; salts of steel; vitriolate of iron).  
T clothes moth, Mediterranean fruit fly, and *Orthopodomyia signifer*. 895, 963, 1024, 1025, 1176.
- 1164-1450.  
Lanthanum salts, CU.  
T as mothproofing agent; NT clothes moth (739). 739, 745P, 756P, 758P, 780P, 781P, 782P, 975P, 976P, 978P, 1175, 1176.
- 1166-1252.  
Lead antimonate;  $\text{PbHSbO}_4$ ?  
NT Japanese beetle. 1009.
- 1166-1254-1350.  
Lead hydrogen arsenate;  $\text{PbHAsO}_4$ . (Acid lead arsenate; lead arsenate).  
Widely used insecticide, highly toxic to many species of insects. 166, 168, 169, 881, 961, 1079, 1148, 1168, 1225P, 1289, 1371, 1375, 1398, 1491, 1502.
- 1166-1254.  
Lead arsenate, basic.  
Widely used insecticide, toxic to many species of insects.

- 1166-1270.  
Lead borate;  $\text{Pb}(\text{BO}_3)_2 \cdot \text{H}_2\text{O}$ .  
T *Popillia japonica* and 50% T as soil treatment. 493A, 915, 1150.
- 1166-1286-1285.  
Lead carbonate, basic;  $(\text{PbCO}_3)_2 \cdot \text{Pb}(\text{OH})_2$ . (Ceruse; cerussite (native); fake lead; lead spar; plumbic carbonate; plumbicarbonates; white lead).  
T *Malacosoma americana*; ST Japanese beetle; NT clothes moth. 42, 120, 493A, 1024, 1176, 1268.
- 1166-1291.  
Lead chloride;  $\text{PbCl}_2$ .  
T *Popillia japonica*; 67% T as soil treatment. 493A.
- 1166-1296.  
Lead chromate;  $\text{PbCrO}_4$ .  
ST *Malacosoma americana*. 120.
- 1166-1312.  
Lead fluoride;  $\text{PbF}_2$ .  
T *Popillia japonica* larvae and T *Bombyx mori* M.L.D.=0.25-0.4 mg./g. 493A, 1277.
- 1166-1313.  
Lead fluosilicate;  $\text{PbSiF}_6$ .  
T *Bombyx mori*. 1056A.
- 1166-1350.  
Lead oxide, CU.  
T *Malacosoma americana*; NT clothes moth. 42, 120, 1024, 1176, 1268.
- 1166-1356.  
Lead hydrogen phosphate;  $\text{PbHPO}_4$ .  
T *Popillia japonica* larvae; 67% T as soil treatment. 493A.
- 1166-1389.  
Lead sulphate;  $\text{PbSO}_4$ .  
ST *Malacosoma americana*. 120.
- 1166-1405.  
Lead thiocyanate;  $\text{Pb}(\text{SCN})_2$ .  
NT Japanese beetle. 1008.
- 1166-1414.  
Lead thiosulfate;  $\text{PbS}_2\text{O}_3$ .  
ST codling moth. 915.
- 1166-1450.  
Lead, water soluble salts of.  
T as mothproofing agent. 758P, 1176.
- 1166-1450.  
Lead salts, CU.  
T clothes moths. 756P, 1175.
- 1168-1312.  
Lithium fluoride;  $\text{LiF}$ .  
T as mothproofing agent. 978P, 983P, 1176.
- 1168-1313.  
Lithium fluosilicate;  $\text{Li}_2\text{SiF}_6$ .  
T as mothproofing agent. 120A, 983P, 1176.
- 1168-1314.  
Lithium fluosulphonate;  $\text{LiSO}_3\text{F}$ .  
T as mothproofing agent. 823P, 1176.
- 1168-1450.  
Lithium salts, CU.  
T as mothproofing agent. 823P, 1176.
- 1172-1218-1312.  
Magnesium sodium fluoride;  $\text{NaF} \cdot \text{MgF}_2$ ?  
ST codling moth. 915.
- 1172-1254.  
Magnesium arsenate;  $\text{Mg}_3(\text{AsO}_4)_2$ ?  
Widely used insecticide, toxic to many species of insects. 1371.
- 1172-1270.  
Magnesium borate;  $\text{Mg}(\text{BO}_3)_2$ .  
ST codling moth. 915.
- 1172-1286.  
Magnesium carbonate;  $\text{MgCO}_3$ .  
T as mothproofing agent; NT cockroach and *Melanoplus m. mexicanus*. 638P, 1150, 1179, 1268.
- 1172-1291.  
Magnesium chloride;  $\text{MgCl}_2$ .  
T as mothproofing agent; NT *Melanoplus m. mexicanus*. 103P, 1150, 1179.
- 1172-1312.  
Magnesium fluoride;  $\text{MgF}_2$ .  
ST Colorado potato beetle; NT *Melanoplus m. mexicanus*. 905, 1150.
- 1172-1313.  
Magnesium fluosilicate;  $\text{MgSiF}_6$ .  
ST *Rhagoletis completa*. 114.
- 1172-1350.  
Magnesium oxide;  $\text{MgO}$ .  
NT cockroach. 1288.
- 1172-1356.  
Magnesium phosphate;  $\text{Mg}_3(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1172-1389.  
Magnesium sulphate;  $\text{MgSO}_4$ . (Bitter salt; epsom salts; hair bitter; kieserite (native); magnesia vitriolata; magnesi sulphas; sal catharticum; amar; salts).  
T Mediterranean fruit fly, *Lucilia cuprina* larvae, silverfish, cockroach, and T as mothproofing agent (32, 548); NT *Melanoplus m. mexicanus* and NT clothes moths (43, 45, 739). 32, 43, 45, 175, 548, 739, 849, 963, 985A, 1150, 1176.
- 1174-1254.  
Manganese arsenate;  $\text{Mn}_2(\text{AsO}_4)_2$ ?  
T codling moth and *Popillia japonica*; 50% T as soil treatment. 493A, 962.
- 1174-1270.  
Manganese borate;  $\text{Mn}(\text{BO}_3)_2$ .  
ST codling moth. 915.
- 1174-1312.  
Manganese fluoride;  $\text{MnF}_2$ .  
T *Bombyx mori*—M.L.D.=2-4 mg./g. 1277.
- 1174-1350.  
Manganese dioxide;  $\text{MnO}_2$ . (Binoxide of manganese; black oxide of manganese; pyrolusite (native); manganic-dioxidum; manganic oxidum nigrum; manganic dioxide; manganic peroxidum; peroxide of manganese; psilomelane).  
T as mothproofing agent. 245P, 1176.
- 1174-1356.  
Manganese phosphate;  $\text{Mn}_2(\text{PO}_4)_2$ ?  
NT *Bombyx mori* larvae. 561.
- 1174-1389.  
Manganous sulphate;  $\text{MnSO}_4 \cdot 2\text{H}_2\text{O}$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1174-1389.  
Manganese sulphate, CU.  
T *Lucilia cuprina* larvae at 0.1%. 849.
1176.  
Mercury; Hg.  
T stored grain insects. 826.
- 1176-1212-1303.  
Mercury selenocyanate;  $\text{Hg}(\text{SeCN})_2$ ? 321P.
- 1176-1291.  
Mercurous chloride;  $\text{HgCl}_2$ .  
T root maggot on Brassica. 1504.
- 1176-1291.  
Mercuric chloride;  $\text{HgCl}_2$ . (Corrosive; corrosive chloride of mercury; corrosive sublimate; dimuriate of mercury; hydrargyri chloridum corrosivum; hydrargyri corrosivum sublimatum; hydrargyri muriaticum; hydrargyri perchloridum; hydrargyri permurias; hydrargyri supermurias; mercury bichloride; mercury chloride; perchloride of mercury).  
T cabbage root maggot (eggs), codling moth, *Lucilia cuprina*, Mediterranean fruit fly, and as mothproofing agent; NT clothes moths (66). 26, 66, 175, 849, 915, 963, 1024, 1025, 1077, 1150, 1176, 1504.
- 1176-1350.  
Mercury oxide. 178P, 1432.
- 1176-1405.  
Mercury thiocyanate, CU;  $\text{HgSCN}$  (mercurous) or  $\text{Hg}(\text{SCN})_2$  (mercuric)?  
98% T codling moth larvae. 736, 1432.
- 1176-1450.  
Mercury, water soluble salts of.  
T as mothproofing agent. 758P, 1176.
- 1176-1450.  
Mercury salts, CU.  
T as mothproofing agent. 756P, 1176.
- 1180-1198-1450.  
Didymium salts, CU. (Mixture of Neodymium and Praseodymium).  
T as mothproofing agent. 780P, 781P, 782P, 1176.
- 1182-1270.  
Nickel borate;  $\text{Ni}(\text{BO}_3)_2$ .  
ST codling moth. 915.
- 1182-1303.  
Nickel cyanide;  $\text{Ni}(\text{CN})_2$ .  
NT *Malacosoma americana*. 915.
- 1182-1389.  
Nickel sulphate;  $\text{NiSO}_4$ .  
T *Lucilia cuprina* larvae at 0.1%. 849.

1184.  
Nitrogen;  $N_2$ .  
T as mothproofing agent. 585P, 1179.
- 1184-1291.  
Nitrogen trichloride;  $NCI_3$ .  
T thrips. 1497.
- 1184-1350.  
Nitrous oxide;  $N_2O$ .  
NT *Chrysomphalus aurantii*. 268.
1192.  
Phosphorus (paste);  $P_4$ .  
T cockroaches. 26, 586.
- 1196-1212-1392.  
Potassium seleno-sulfide;  $(K_2S)_2Se$ ?  
T red spiders. 564P.
- 1196-1252.  
Potassium antimonate;  $KSbO_3$ ?  
T as mothproofing agent. 1038P, 1176.
- 1196-1254.  
Potassium arsenate;  $K_3AsO_4$ ?  
T as mothproofing agent; NT tobacco worm moth. 553, 1133P, 1179.
- 1196-1261.  
Potassium arsenite;  $KAsO_3$ .  
NT tobacco worm moth. 553.
- 1196-1270.  
Potassium borate;  $KBO_3$ ?  
ST codling moth. 915.
- 1196-1274.  
Potassium bromate;  $KBrO_3$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1196-1286.  
Potassium carbonate;  $K_2CO_3$ .  
T as mothproofing agent. 1176, 1270P.
- 1196-1288.  
Potassium chlorate;  $KClO_3$ .  
NT *Orthopodonia signifer*. 895.
- 1196-1290.  
Potassium perchlorate;  $KClO_4$ .  
T as mothproofing agent. 867P, 1175.
- 1196-1291.  
Potassium chloride;  $KCl$ .  
T *Orthopodonia signifer*. 175, 895.
- 1196-1297.  
Potassium dichromate;  $K_2Cr_2O_7$ .  
T *Lucilia cuprina* larvae at 0.1%. 824P, 849.
- 1196-1303.  
Potassium cyanide;  $KCN$ .  
T *Lucilia cuprina* larvae at 0.01-0.1%; NT to insects when injected into plants. 1r, 317P, 501, 849, 1011A, 1176, 1396.
- 1196-1309.  
Potassium ferrocyanide;  $K_4Fe(CN)_6 \cdot 3H_2O$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1196-1310.  
Potassium fluoaluminat;  $K_3AlF_6$ . (Potassium aluminum fluoride).  
T Mediterranean fruit fly and T *Bombyx mori* M.L.D. 0.08-0.1 mg./gm. 963, 1277.
- 1196-1312.  
Potassium fluoride;  $KF$ .  
T as mothproofing agent; NT tobacco worm moth. 553, 978P, 983P, 1176, 1416P, 1417P.
- 1196-1312.  
Potassium hydrogen fluoride;  $KHF$ . (Potassium bifluoride).  
T as mothproofing agent. 423P, 461P, 468P, 1175, 1176, 1356P.
- 1196-1312-1356.  
Potassium fuophosphate;  $KPF_3$ ? (Monopotassium monofluorophosphate).  
T as mothproofing agent. 461P, 642P, 1175, 1176.
- 1196-1312-1389?  
Potassium fuosulfate?  $K_2F_2(SO_4)_2$ ? (Triopotassium difluorodisulphate).  
T as mothproofing agent. 461P, 642P, 1175, 1176.
- 1196-1313.  
Potassium fuosilicate;  $K_2SiF_6$ .  
T *Bombyx mori* M.L.D. 0.07-1 mg./gm. and T as mothproofing agent. 978P, 983P, 1176, 1277.
- 1196-1314.  
Potassium fuosulphonate;  $KSO_3F$ .  
T as mothproofing agent. 823P, 1176.
- 1196-1333.  
Potassium iodide;  $KI$ .  
NT *Melanoplus m. mexicanus*. 895, 1150.
- 1196-1338.  
Potassium permanganate;  $KMnO_4$ .  
NT *Melanoplus m. mexicanus*. 1150.
- 1196-1341.  
Potassium nitrate;  $KNO_3$ .  
T *Lucilia cuprina* larvae at 0.01-0.1%. 849.
- 1196-1394.  
Potassium silicate;  $K_2SiO_3$ ?  
T as mothproofing agent; NT clothes moths (739). 327P, 739, 1176.
- 1196-1392.  
Potassium sulphide;  $K_2S$ .  
NT *Limoniis californicus* larvae. 1396.
- 1196-1415.  
Potassium thiocarbonate;  $K_2CS_3 \cdot H_2O$ .  
HT grubs of *Leucophaea irrorata*. 880.
- 1196-1450.  
Potassium salts, CU.  
T as mothproofing agent. 823P, 1176.
- 1212-1218-1392.  
Sodium seleno-sulfide;  $(Na_2S)_2Se$ ?  
T red spider. 564P.
- 1212-1291-1350.  
Selenium oxychloride;  $SeOCl_2$ .  
T *Lucilia cuprina* larvae at 0.01-0.1%. 849.
- 1212-1350.  
Selenium dioxide;  $SeO_2$ .  
T mites. 725.
- 1212-1392.  
Selenium sulfide;  $SeS_2$ .  
T mites. 725.
- 1212-1450.  
Selenium compounds, CU.  
T as mothproofing agent. 399P, 429P, 445P, 679P, 680P, 1175, 1179.
1214.  
Silicon hydride?  $SiH_4$ ? (Silicon hydrate).  
96% T *Calandra granaria*. 541.
- 1214-1312.  
Silicon tetrafluoride;  $SiF_4$ .  
HT grain weevil, bean weevil, bedbug, etc. 894.
- 1214-1350.  
Silicon dioxide;  $SiO_2$ . (Quartz sand; naaki; firestone; flint; silica).  
NT cockroach. 541, 1050, 1268.
- 1216-1341.  
Silver nitrate;  $AgNO_3$ .  
T *Lucilia cuprina* larvae at 0.1%. 849.
- 1218-1236-1312.  
Sodium titanium fluoride;  $TiNaF_6$ ?  
T as mothproofing agent. 1166P, 1179.
- 1218-1250.  
Sodium aluminate;  $NaAlO_2$ .  
T *Lucilia cuprina* larvae at 0.1%. 849.
- 1218-1254.  
Sodium arsenate;  $Na_3AsO_4$ .  
80-100% T *Lucilia sericata* larvae; NT tobacco worm moth. 553, 723.
- 1218-1260.  
Sodium arsenite;  $Na_2AsO_3$ .  
HT *Lucilia sericata* larvae; T *Lucilia cuprina* larvae at 0.1% and T as mothproofing agent; used in poison baits. 164, 485, 620, 702, 723, 724, 849, 896, 919, 1030, 1133P, 1179, 1342.
- 1218-1264.  
Sodium aside;  $NaN_3$ . (Sodium salt of hydrazoic acid).  
T mites, ants, flies, etc. 1475P.
- 1218-1271.  
Borax;  $Na_2B_4O_7$ . (Sodium borate; sodium tetraborate).  
T housefly, stablefly, wireworms, T *Lucilia cuprina* at 0.1%, and T as mothproofing agent; NT bedbugs and NT clothes moth (42, 1024, 1268, 1479). 26, 40P, 42, 543, 823P, 849, 888, 918, 956, 1024, 1176, 1268, 1479.
- 1218-1276.  
Sodium bromide;  $NaBr$ .  
NT *Orthopodonia signifer*. 895.
- 1218-1286.  
Sodium carbonate;  $Na_2CO_3$ . (Soda ash; sal soda).  
T as mothproofing agent (1343P); NT cockroach and as mothproofing agent. 42, 245P, 739, 1024, 1176, 1268P, 1343P.

- 1218-1286.  
Sodium bicarbonate;  $\text{NaHCO}_3$ . (Acid carbonate of soda; hydrosodic carbonate; sesqui-carbonate of soda; sodi bicarbonas; vichy salts).  
NT clothes moth, cockroach, and *Orthopodomyia signifer*. 42, 739, 895, 1024, 1176, 1268.
- 1218-1291.  
Sodium chloride;  $\text{NaCl}$ . (Common salt).  
T as mothproofing agent (339P, 823P); NT *Orthopodomyia signifer* and NT clothes moth (42, 1024). 42, 175, 319P, 339P, 823P, 895, 1024, 1175, 1176.
- 1218-1297.  
Sodium bichromate;  $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$ .  
Shows promise as an ingredient of bran baits. 512A.
- 1218-1303.  
Sodium cyanide;  $\text{NaCN}$ .  
T termites, ants, many species of insects, and as soil treatment. 1078A.
- 1218-1310.  
Sodium fluoaluminat;  $\text{Na}_3\text{AlF}_6$ . (Cryolite).  
Widely used insecticide, toxic to many species of insects.
- 1218-1312.  
Sodium fluoride;  $\text{NaF}$ .  
T many species of insects and as mothproofing agent; NT clothes moth (43, 739). 43, 739, 975P, 976P, 982P, 983P, 1024, 1176, 1209P, 1216, 1416P, 1417P.
- 1218-1312.  
Sodium hydrogen fluoride;  $\text{NaHF}$ . (Sodium bifluoride).  
T as mothproofing agent. 468P, 1176, 1356P.
- 1218-1313.  
Sodium fluosilicate;  $\text{Na}_2\text{SiF}_6$ . (Sodium silicofluoride).  
T as mothproofing agent. 423P, 460P, 896, 945P, 975P, 978P, 980P, 982P, 983P, 984P, 985, 1175, 1176, 1221, 1358P, 1479.
- 1218-1314.  
Sodium fluosulphonate;  $\text{NaSO}_3\text{F}$ .  
T as mothproofing agent. 823P, 1176.
- 1218-1325.  
Sodium hydroxide;  $\text{NaOH}$ .  
T *Musca domestica*; NT grasshoppers and *Orthopodomyia signifer*. 623, 895, 1012.
- 1218-1340.  
Sodium molybdate;  $\text{Na}_2\text{MoO}_4$ .  
T as mothproofing agent. 40P, 1176.
- 1218-1356.  
Sodium phosphate;  $\text{Na}_2\text{HPO}_4$ . (Disodium orthophosphate; disodium phosphate).  
T as mothproofing agent; NT clothes moth (739). 40P, 327P, 335P, 739, 1176.
- 1218-1376.  
Sodium selenate;  $\text{Na}_2\text{SeO}_4$ .  
T *Lucilia cuprina* larvae at 0.1% and T clothes moth. 551, 725, 733, 849, 1045, 1175, 1361P.
- 1218-1380.  
Sodium selenite;  $\text{Na}_2\text{SeO}_3$ .  
T as mothproofing agent. 423P, 849, 1175, 1412.
- 1218-1384.  
Sodium silicate;  $\text{Na}_2\text{Si}_2\text{O}_7$ ? (Silicate of soda; sodium tetrasilicate; soluble glass; waterglass).  
T as mothproofing agent; NT *Orthopodomyia signifer*. 40P, 895, 1176.
- 1218-1389.  
Sodium sulphate;  $\text{Na}_2\text{SO}_4$ . (Glauber salts; salt cake).  
T *Musca domestica* and as mothproofing agent; NT clothes moth (739). 319P, 331P, 332P, 333P, 411P, 739, 823P, 936P, 1012, 1175, 1176, 1216P, 1257P.
- 1218-1389.  
Sodium hydrogen sulphate;  $\text{NaHSO}_4$ . (Sodium bisulphate).  
T as mothproofing agent. 412P, 1175, 1176, 1258P.
- 1218-1392.  
Sodium hydrosulphide;  $\text{NaHS}$ .  
T as mothproofing agent. 953P, 1179.
- 1218-1392.  
Sodium sulfide;  $\text{Na}_2\text{S}$ .  
T *Lucilia cuprina* larvae and 49-51% T *Lucilia sericata* larvae; NT *Melanoplus m. mexicanus*. 723, 849, 1180.
- 1218-1393.  
Sodium sulphite;  $\text{Na}_2\text{SO}_3$ .  
T *Lucilia cuprina* and *Phaethon agonus* larvae. 849, 1396.
- 1218-1396.  
Sodium bisulphite;  $\text{Na}_2\text{S}_2\text{O}_5$ .  
NT *Orthopodomyia signifer*. 895.
- 1218-1405.  
Sodium thiocyanate;  $\text{NaSCN}$ .  
ST codling moth larvae; NT *Melanoplus m. mexicanus*. 929, 930, 1150, 1432.
- 1218-1415.  
Sodium thiocarbonate;  $\text{Na}_2\text{CS}_3 \cdot \text{H}_2\text{O}$ . (Sodium sulfo-carbonate).  
NT wireworms. 1093, 1396.
- 1218-1420.  
Sodium tungstate;  $\text{Na}_2\text{WO}_4$ . (Sodium wolframate).  
T *Lucilia cuprina* larvae at 0.1% and T as mothproofing agent. 40P, 849, 1176.
- 1218-1450.  
Sodium salts, CU.  
T as mothproofing agent. 823P, 1176.
- 1220-1270.  
Strontium borate;  $\text{Sr}(\text{BO}_3)_2$ .  
NT codling moth. 915.
- 1220-1291.  
Strontium chloride;  $\text{SrCl}_2$ .  
T as mothproofing agent. 422P, 430P, 869P, 1175.
- 1220-1312.  
Strontium fluoride;  $\text{SrF}_2$ .  
ST Colorado potato beetle and codling moth. 895, 915.
- 1220-1341.  
Strontium nitrate;  $\text{Sr}(\text{NO}_3)_2$ .  
T as mothproofing agent. 422P, 430P, 869P, 1175.
- 1220-1450.  
Strontium compounds, CU.  
T as mothproofing agent. 422P, 430P, 869P, 1175.
1222.  
Sulphur S. (Brimstone).  
T many species of insects and T as mothproofing agent (489P); NT clothes moth. 42, 489P, 764, 935P, 1024, 1124P, 1156, 1176, 1268, 1508.
- 1222-1291.  
Sulphur chloride;  $\text{SCl}_2$ .  
T as mothproofing agent. 459P, 1176.
- 1222-1292.  
Thionyl chloride;  $\text{SOCl}_2$ .  
100% T rice weevil. 1180.
- 1222-1350.  
Sulfur dioxide;  $\text{SO}_2$ .  
ST *Chrysomphalus aurantii*. 268.
- 1228-1389.  
Thallium sulphate;  $\text{Tl}_2\text{SO}_4$ .  
T many species of insects when used in poison baits; NT Mediterranean fruit fly. 963, 1030, 1107.
- 1228-1450.  
Thallium salts, CU.  
T as mothproofing agent. 399P, 745P, 780P, 781P, 782P, 975P, 976P, 978P, 1175, 1176.
- 1230-1450.  
Thorium salts, CU.  
T as mothproofing agent; NT clothes moth (739). 739, 745P, 766P, 758P, 780P, 781P, 782P, 975P, 976P, 978P, 1175, 1176.
- 1234-1291.  
Stannous chloride;  $\text{SnCl}_2$ .  
T Mediterranean fruit fly; NT *Melanoplus m. mexicanus*. 963, 1150.
- 1234-1450.  
Tin salts, CU.  
T as mothproofing agent. 359P, 433P, 463P, 1175, 1176.
- 1236-1312.  
Titanium fluoride;  $\text{TiF}_4$ ?  
T as mothproofing agent. 936P, 1175.
- 1236-1450.  
Titanium salts, CU.  
T as mothproofing agent. 327P, 329P, 337P, 745P, 780P, 781P, 782P, 938P, 975P, 976P, 978P, 1166P, 1167P, 1176, 1179.
- 1240-1450.  
Uranium salts, CU.  
T as mothproofing agent. 745P, 756P, 781P, 975P, 976P, 978P, 1175, 1176.
- 1243-1450.  
Yttrium salts, CU.  
T as mothproofing agent. 780P, 781P, 782P, 1176.

- 1244-1254.  
Zinc arsenate;  $Zn_3(AsO_4)_2$ ?  
T as soil treatment and MT *Popillia japonica*. 493A.
- 1244-1255.  
Zinc metaarsenate;  $Zn(AsO_3)_2$ .  
Used to treat building material termite proof. 1179, 1387P.
- 1244-1260.  
Zinc arsenite;  $Zn(AsO_2)_2$ .  
T *Melanoplus m. mexicanus* and many species of insects. 1150.
- 1244-1270.  
Zinc borate;  $Zn(BO_2)_2$ .  
ST codling moth. 915.
- 1244-1286.  
Zinc carbonate;  $Zn(CO_3)_2$ .  
ST codling moth. 915.
- 1244-1291.  
Zinc chloride;  $ZnCl_2$ .  
T Mediterranean fruit fly. 262A, 963.
- 1244-1303.  
Zinc cyanide;  $Zn(CN)_2$ .  
20% T Colorado potato beetle and Mexican bean beetle and T *Malacosoma americana*; NT codling moth. 606, 915, 1008, 1150.
- 1244-1311.  
Zinc fluoborate;  $Zn(BF_4)_2$ ?  
ST codling moth. 915.
- 1244-1312.  
Zinc fluoride;  $ZnF_2$ .  
T *Malacosoma americana* and as mothproofing agent. 327P, 329P, 337P, 397P, 936P, 938P, 978P, 983P, 1008, 1175, 1176, 1416P, 1417P.
- 1244-1313.  
Zinc fluosilicate;  $ZnSiF_6$ . (Zinc silicofluoride).  
T as mothproofing agent. 120A, 978P, 983P, 1176.
- 1244-1314.  
Zinc fluosulphonate;  $Zn(FSO_3)_2$ .  
T as mothproofing agent. 339P, 1167P, 1176, 1416P.
- 1244-1345.  
Zinc nitroprusside;  $ZnFe(CN)_5(NO)$ .  
NT *Malacosoma americana*. 1008.
- 1244-1362.  
Zinc phosphide;  $Zn_3P_2$ .  
T *Curtilla grylotalpa* and grasshoppers. 893A, 1154.
- 1244-1389.  
Zinc sulphate;  $ZnSO_4$ . (Salt of vitriol; white cop-pers; white vitriol).  
T *Lucilia cuprina*, *L. sericata*, *Calliphora stygia*, and as mothproofing agent; NT codling moth. 327P, 339P, 849, 915, 918, 936P, 938P, 975P, 978P, 982P, 983P, 1164P, 1175, 1176, 1416P, 1417P.
- 1244-1450.  
Zinc salts, CU.  
T as mothproofing agent. 823P, 1166P, 1176, 1179.
- 1245-1450.  
Zirconium salts, CU.  
T as mothproofing agent. 780P, 781P, 782P, 945P, 975P, 976P, 978P, 1176.
1246.  
Rare earths.  
T as mothproofing agent. 780P, 781P, 1176.
- 1246-1312.  
Fluorides, soluble, CU.  
T as mothproofing agent. 585P, 1179.
- 1246-1312.  
Fluorides, CU.  
T as mothproofing agent; NT clothes moth (739). 43, 44, 45, 339P, 467P, 739, 945P, 975P, 976P, 978P, 979P, 982P, 983P, 1176.
- 1246-1312.  
Acid fluorides, CU. (Hydrofluoric acid salts).  
T clothes moth. 1359P.
- 1246-1312.  
Fluorine compounds, CU.  
T as mothproofing agent. 642P, 1175, 1357P.
- 1246-1313.  
Fluosilicates, CU. (Silicofluorides).  
T as mothproofing agent. 192P, 585P, 975P, 978P, 982P, 983P, 984P, 1176, 1179.
- 1246-1378.  
Alkali polyselenides, CU;  $A(Se)_x$ .  
T red spider. 562P, 563P.
- 1246-1389.  
Sulphates, alkali metal, CU.  
T as mothproofing agent. 975P, 982P, 1176.
- 1246-1450.  
Radioactive metals, water soluble salts of, CU.  
T as mothproofing agent. 788P, 1176.
- 1246-1450.  
Rare earth metals, water soluble salts of.  
T as mothproofing agent. 758P, 1176.
1250.  
Aluminates, aryl, CU. 186P.
1252.  
Antimonic acid, CU;  $HSbO_3$ ?  
T as mothproofing agent; NT *Orthopodomyia signifer*. 327P, 895, 938P, 1176.
1270.  
Boric acid;  $H_2BO_3$ .  
93-100% T *Lucilia sericata* larvae, T *L. cuprina* larvae at 0.1%, T fleece worms of sheep, cockroaches, housefly eggs, and as mothproofing agent; NT *Orthopodomyia signifer*. 723, 849, 895, 918, 956, 1144, 1166, 1179, 1268.
1276.  
Hydrobromic acid; HBr.  
T as mothproofing agent. 867P, 1175, 1179, 1282P.
1276.  
Bromine; Br.  
Used to improve toxicity of gaseous Cr compounds. 855P.
1289.  
Perchloric acid;  $HClO_4$ .  
T as mothproofing agent. 867P, 1175.
1291.  
Hydrochloric acid; HCl. (Hydrogen chloride).  
T clothes moth; NT red scale, wireworms, and *Orthopodomyia signifer*. 175, 268, 660, 867P, 895, 1175, 1396.
1291.  
Chlorine;  $Cl_2$ .  
T as mothproofing agent; NT Angoumois grain moth. 612, 855P, 1176, 1231P.
1303.  
Hydrocyanic acid; HCN.  
T many insects as fumigant and T as mothproofing agent. 82, 411P, 425P, 867P, 1049, 1175, 1364, 1399P.
- 1303-1392.  
Thiocyanic acid, cyanogen ester;  $(CN)_2S$ . (Cyanogen sulphide; cyanogen thiocyanate).  
NT *Sitophilus oryzae*, *S. granarius*, *Tribolium confusum*, and *Plodia*. 1042, 1178.
1311.  
Fluoboric acid;  $HFbF_4$ .  
T as mothproofing agent. 423P, 938P, 1175, 1176, 1241P, 1400P.
1312.  
Hydrofluoric acid; HF.  
T *Orthopodomyia signifer*, grain weevil, bedbugs, and as mothproofing agent; NT clothes moth (739). 327P, 329P, 337P, 339P, 423P, 461P, 739, 867P, 894, 895, 936P, 938P, 1175, 1176.
- 1312-1340.  
Fluoxymolybdic acid. (Fluomolybdic acid; molybdic hydrofluoric acid).  
T as mothproofing agent. 938P, 1176.
1313.  
Hydrofluosilicic acid;  $H_2SiF_6$ . (Hydrogen silicofluoride; hydrofluosilicic acid; sand acid; silicofluoric acid, Montanin).  
HT grain weevil, bean weevil, and bedbugs; T *Orthopodomyia signifer* and as mothproofing agent. 327P, 329P, 334P, 339P, 421P, 426P, 456P, 582, 867P, 894, 895, 938P, 1175, 1176, 1179, 1359P.
1314.  
Fluosulphonic acid;  $HSO_3F$ .  
T as mothproofing agent. 823P, 1176.
1315.  
Fluotitanic acid;  $H_2TiF_6$ . (Titanium hydrofluoric acid).  
T as mothproofing agent. 327P, 339P, 456P, 936P, 938P, 1175, 1176, 1179, 1359P.
1333.  
Hydriodic acid; HI.  
T as mothproofing agent. 867P, 1175.
1333.  
Iodine;  $I_2$ .  
T *Lucilia cuprina* larvae at 0.1%. 849.

1340.  
Molybdis acid;  $H_2MoO_4$ .  
T as mothproofing agent. 327P, 329P, 336P, 1176.
1341.  
Nitric acid;  $HNO_3$ . (Azotic acid; acidum nitricum; aqua fortis; hydrogen nitrate; hydrogenii nitras).  
T as mothproofing agent; NT wireworms, tobacco worm moth, and NT clothes moth (739). 175, 327P, 335P, 553, 660, 739, 1176, 1396.
1350.  
Oxygen;  $O_2$ .  
NT *Chrysomphalus aurantii* and housefly larvae. 268, 1012.
1350.  
Ozone;  $O_3$ .  
Fumigant against flour weevil. 1144.
1351.  
Hydrogen peroxide;  $H_2O_2$ .  
T as mothproofing agent. 378P, 379P, 355P, 1176.
1356.  
Phosphoric acid;  $H_3PO_4$ .  
T as mothproofing agent; NT wireworms. 660, 867P, 1175, 1396.
1362.  
Phosphine;  $PH_3$ .  
T various insects; NT red scale. 366, 330A.
1367.  
Phosphomolybdis acid;  $H_3Mo_{12}O_{40} \cdot 29H_2O$ .  
T as mothproofing agent. 335P, 867P, 1175, 1176.
1368.  
Phosphotungstic acid;  $H_3PW_{12}O_{40} \cdot 14H_2O$ . (Phospho-wolframic acid).  
T as mothproofing agent. 327P, 329P, 335P, 336P, 867P, 1175, 1176.
1376.  
Selenic acid;  $H_2SeO_4$ .  
T as mothproofing agent. 419P, 679P, 1175, 1359P.
1378.  
Hydrogen selenide;  $H_2Se$ .  
T mites. 725.
1380.  
Selenious acid;  $H_2SeO_3$ .  
T as mothproofing agent. 419P, 423P, 429P, 679P, 1175, 1359P, 1361P.
1384.  
Silicic acid, colloidal.  
T as mothproofing agent. 327P, 329P, 336P, 1176.
1388.  
Stannic acid;  $H_2SnO_3$ ?  
T as mothproofing agent; NT clothes moth (739). 327P, 329P, 336P, 739, 1176.
1389.  
Sulphuric acid;  $H_2SO_4$ . (Hydrogen sulphate; oil of vitriol).  
T as mothproofing agent; NT tobacco worm moth, wireworms, grasshoppers, and NT clothes moth (739, 985). 175, 245P, 327P, 331P, 332P, 334P, 335P, 336P, 337P, 339P, 464P, 503, 553, 623, 660, 739, 867P, 936P, 938P, 985, 1175, 1176, 1396.
1392.  
Hydrogen sulfide;  $H_2S$ .  
T *Chrysomphalus aurantii*. 268.
1394.  
Hydrosulphite, CU.  
T as mothproofing agent. 1026, 1175, 1176, 1298P.
1405.  
Thiocyanic acid;  $HSCN$ .  
T as mothproofing agent. 867P, 1175.
1405.  
Thiocyanogen;  $(SCN)_2$ .  
90% T *Corpocapes pomonella* larvae, T mosquito larvae, and *Pisema quadrata*. 487, 1291, 1473P.
1416.  
Titanic acid;  $Ti(OH)_3XH_2O$ .  
T as mothproofing agent. 329P, 336P, 1176.
1420.  
Tungstic acid;  $H_2WO_4$ . (Orthotungstic acid; wolframic acid).  
T as mothproofing agent; NT clothes moth (739). 327P, 329P, 336P, 739, 1176.
1426.  
Uranic acid;  $H_2UO_4$ .  
T as mothproofing agent. 327P, 329P, 336P, 1176.



# CONDENSATION PRODUCTS

Acetic acid, thiocyno-, ester of a formaldehyde-allo-oimene. (Thiocyanoacetate of an alcohol which is the product of a condensation of formaldehyde with allo-oimene).

Fly spray. 90P, 112.

Acetic acid, thiocyno-, ester of a formaldehyde-pinene. (Thiocyanoacetate of an alcohol which is the product of condensation of formaldehyde with pinene).

Fly spray. 90P, 112.

Acetic acid, thiocyno-, ester of a hydrogenated formaldehyde-dipentene. (Thiocyanoacetate of an alcohol which is the hydrogenated product of condensation of formaldehyde with dipentene).

Fly spray. 90P, 112.

Acetic acid, thiocyno-, ester of reduced allo-oimene-crotonaldehyde.

Fly spray. 98P, 112.

Acetophenone,  $\alpha$ -bromo-, with alkali thiocyanate. 1178, 1248P.

Acetophenone,  $\alpha$ -bromo-*p*-chloro-, with alkali metal thiocyanate. 1178, 1248P.

Acetophenone,  $\alpha$ -bromo-3,4-dihydroxy-, with alkali metal thiocyanate. 1178, 1248P.

Alcohol, monohydric aliphatic, with alkali metal sulfates. 1283P.

Amines, amyl-, with a dihalogenated pentane. 1492P.

Anisole, 2-amino-, diasotised. 369P.

Anthracene, amino-, with hydrofluosilicic acid. 1225P.

Benzaldehyde, *p*-chloro-, with 5-chloro-*o*-cresol. 1179, 1456P.

Benzenesulfonic acid, 4-chloro-2-formyl-, with *p*-chlorophenol. 451P, 1179.

Benzenesulfonic acid, 5-chloro-2-formyl-, with chlorophenol. 451P, 1179.

Benzenesulfonic acid, chloro-*o*-formyl-, with *p*-chlorophenol.

T as mothproofing agent. 451P, 1179.

Benzenesulfonic acid, chloro-*o*-formyl-, with chlorophenol.

T as mothproofing agent. 443P, 1179.

Benzenesulfonic acid, *o*-formyl-, chlorinated, with 2,4-dichlorophenol.

T as mothproofing agent. 443P, 1179.

Benzenesulfonic acid, *o*-formyl-, with 5-chloro-*o*-cresol.

T as mothproofing agent. 448P, 1179, 1459P.

Benzenesulfonic acid, *o*-formyl-, with 6-chloro-2-cresol.

T as mothproofing agent. 438P, 1179, 1459P.

Benzenesulfonic acid, *o*-formyl-, with *p*-cresol.

T as mothproofing agent. 426P, 438P, 1179.

Benzenesulfonic acid, *p*-formyl-, with a cresol.

T as mothproofing agent. 1179, 1454P.

Benzenesulfonic acid, *o*-formyl-, with *m*-chloroguaiacol.

T as mothproofing agent. 1179, 1459P.

Benzenesulfonic acid, *o*-formyl-, with *m*-chlorophenol.

T as mothproofing agent. 1179, 1459P.

Benzenesulfonic acid, *o*-formyl-, with *p*-chlorophenol, brominated.

T as mothproofing agent. 455P, 1179.

Benzenesulfonic acid, *p*-formyl-, with 4,6-dichloro-*o*-cresol.

T as mothproofing agent. 439P, 1179.

Benzenesulfonic acid, *o*-formyl-, with a hydroxynaphthoxy aliphatic or cycloaliphatic alcohol.

T as mothproofing agent. 447P, 1179.

Benzenesulfonic acid, *o*-formyl-, with a hydroxyphenoxy aliphatic or cycloaliphatic alcohol.

T as mothproofing agent. 447P, 1179.

Benzenesulfonic acid, *p*-formyl-, sodium salt, with *m*- and *p*-cresols.

T as mothproofing agent. 439P, 449P, 1179, 1454P.

Benzenesulfonic acid, *o*-formyl-, sodium salt, with *m*-chloroguaiacol.

T as mothproofing agent. 448P, 1179.

Benzenesulfonic acid, *o*-formyl-, sodium salt, with 2,5-dibromophenol.

T as mothproofing agent. 448P, 1179, 1459P.

Benzenesulfonic acid, *o*-formyl-, sodium salt, with 2,5-dichlorophenol.

T as mothproofing agent. 448P, 1179, 1459P.

Benzoic acid, 2-bromoacetyl-, with an alkali thiocyanate. 1178, 1248P.

Benzyl alcohol, 3,5-dichloro-2-hydroxy-, with *p*-chlorophenol; sulfonated.

T as mothproofing agent. 444P, 1179.

Biphenyl-, amino-, with hydrofluosilicic acid. 1225P.

Biuret, substituted.

T as mothproofing agent. 1013P.

Boron trifluoride, with ketones.

T as mothproofing agent. 1179, 1243P.

1,3-Butadiene, 2,3-dimethyl-? with  $\text{NH}_3$  etc. (Methylisoprene, with  $\text{NH}_3$  etc.). 373P.

2-Butanone, 1,1-dichloro-, with alkali metal thiocyanate.

( $\alpha,\alpha$ -Dichloromethylethyl)-ketone, with alkali metal thiocyanate). 1178, 1248P.

2-Butanone, 1,3-dichloro-, with sodium thiocyanate, CU. 1178, 1248P.

2-Butanone, 1,4-dichloro-, with alkali metal thiocyanate.

( $\alpha,\beta$ -Dichloromethylethyl) ketone, with alkali metal thiocyanate). 1178, 1248P.

*n*-Butyric acid,  $\alpha$ -thiocyno-, ester of allo-oimene-formaldehyde alcohol. ( $\alpha$ -Thiocyno-*n*-butyrate of the allo-oimene formaldehyde alcohol).

Fly spray. 112.

Butyric acid,  $\alpha$ -thiocyno-, ester of a hydrogenated formaldehyde-dipentene. ( $\alpha$ -Thiocyanobutyrate of an alcohol which is the hydrogenated product of condensation of formaldehyde with dipentene).

Fly spray. 99P, 112.

Butyric acid, thiocyno-, ester of reduced allo-oimene crotonaldehyde.

Fly spray. 98P, 112.

Camphor, chloro-, with alkali metal thiocyanate. 1178, 1248P.

Chloral, with phenol.

T as mothproofing agent. 458P, 1179.

Condensation products, unspecified.

T as mothproofing agent. 405P, 410P, 436P, 1175, 1362P, 1393P.

Copper arsenate complex. 274P.

*o*-Cresol, 3-chloro-, with formaldehyde. (1-Methyl-2-hydroxy-6-chlorobenzene, with formaldehyde).

T as mothproofing agent. 448P, 1179.

*o*-Cresol, 5-chloro-, with formaldehyde.

T as mothproofing agent. 448P, 1179.

*o*-Cresol, 6-chloro-, with formaldehyde.

T as mothproofing agent. 438P, 1179, 1459P.

*p*-Cresol, with formaldehyde.

T as mothproofing agent. 438P, 1179.

*p*-Cresol, 2,6-bis(hydroxymethyl)-, with 4-chloro-1-naphthol.

T as mothproofing agent. 454P, 1179.

Cyclohexanone, bromomethyl-, with alkali thiocyanate. 1178, 1248P.

Cyclohexanone, dichloro-, CU, with alkali metal thiocyanate. 1178, 1248P.

Ether, chloroethyl-, with *N,N*-diethyl-acyl-cyclohexylamine.

Fly spray. 112, 147P.

Ethylenediamine, with furfural. 201P.

Guanidines, substituted.

T as mothproofing agents. 1013P.

Polyglycerol, with monobasic aliphatic acids and cycloaliphatic acids.

Fly spray. 112, 147P.

Isatin sulfonic acid, with phenols and their homologs.

T as mothproofing agent. 532P, 1179.



- Isatin sulfonic acid, *N*-bensyl-, with amylphenol. 527P.  
 Isatin sulfonic acid, *N*-bensyl-, with 6-chloro-*m*-cresol. 527P.  
 Isatin sulfonic acid, *N*-bensyl-, with thymol. 527P.  
 Isatin sulfonic acid, *N*-(*o*-chlorobenzyl)-, with 6-chloro-*m*-cresol. 527P.  
 Isatin sulfonic acid, *N*-(*o*-chlorobenzyl)-, with thymol. 527P.  
 Isatin-5-sulfonic acid, with amyl-*o*-chlorophenol. 527P.  
 Isatin-5-sulfonic acid, with amylcresol.  
 T as mothproofing agent. 532P, 538P, 1179.  
 Isatin-5-sulfonic acid, with amylphenol.  
 T as mothproofing agent. 532P, 1179.  
 Isatin-5-sulfonic acid, with *tert*-amylphenol.  
 T as mothproofing agent. 539P, 1179.  
 Isatin-5-sulfonic acid, with 6-chloro-*m*-cresol.  
 T as mothproofing agent. 532P, 537P, 1179.  
 Isatin-5-sulfonic acid, with *p*-chlorophenol.  
 T as mothproofing agent. 532P, 538P, 1179.  
 Isatin-5-sulfonic acid, with 2,4-dichlorophenol.  
 T as mothproofing agent. 73P, 532P, 536P, 1179.  
 Isatin-5-sulfonic acid, with thymol.  
 T as mothproofing agent. 532P, 534P, 1179.  
 Isatin-5-sulfonic acid, 6-chloro-, with *p*-chlorophenol. 72P, 527P.  
 Isatin-5-sulfonic acid, *N*-hydroxyethyl-, with amylcresol. 527P.  
 Isatin-5-sulfonic acid, *N*-hydroxyethyl-, with 6-chloro-*m*-cresol. 527P.  
 Ketone, isovaleryl-, bromo-, with alkali thiocyanate, CU. 1178, 1248P.  
 Linoleic acid, selenium tetrachloride compound.  
 T as mothproofing agent. 429P, 1175.  
 Mesityl oxide, trichloro-, with alkali metal thiocyanate. 1178, 1248P.  
 Mesityl oxide, trichloro-, 5-bromo-, with alkali metal thiocyanate. 1178, 1248P.  
 Morpholine, with a phenol and formaldehyde. 142P.  
 Morpholine, with chinawood oil fatty acids, CU.  
 Fly spray, 112, 1224P.  
 Morpholine, with soybean oil fatty acids, CU.  
 Fly spray, 112, 1224P.  
 Naphthalene, amino-, with hydrofluosilicic acid. 1225P.  
 2-Naphthol, with chromium oxide and formaldehyde. 178P, 1432.  
 2-Naphthol, with formaldehyde and mercury oxide. 178P, 1432.  
 Naphthol, formyl-, with *p*-chlorophenol.  
 T as mothproofing agent. 458P, 1179.  
 2-Pentanone, dichloro-4-hydroxy-4-methyl-, with alkali thiocyanate, CU. 1178, 1248P.  
 2-Pentanone, 4-hydroxy-4-methyl-, with alkali metal thiocyanate. (Dichlorodiacetonealcohol, with alkali metal thiocyanates). 1178, 1248P.  
 Phenol, with formaldehyde and urea. (Phenol or a substitution product or homologue thereof with formaldehyde and urea and subsequent sulphonation of the resinous intermediate product in presence of phenol or a substitution product or homologue thereof).  
 T as mothproofing agent. 531P, 533P, 1179.  
 Phenol, *p*-bromo-, with acetaldehyde.  
 T *Anthrenus vorax* and *Dermestes* on textiles. 469P, 1176.  
 Phenol, *p*-bromo-, with aldehydes.  
 T as mothproofing agent. 458P, 1179.  
 Phenol, *p*-chloro-, with acetaldehyde.  
 T *Anthrenus vorax* and *Dermestes* on textiles. 469P, 1176.  
 Phenol, *p*-chloro- or its substitution products, with an aldehyde.  
 T as mothproofing agent. 458P, 1179.  
 Phenol, *p*-chloro-, with formaldehyde; sulfonated.  
 T as mothproofing agent. 444P, 452P, 1179.  
 Phenol, chloro-, with formaldehyde and urea, sulfonated. (3 Per cent of sulphuric acid and 3 per cent of a sulfonic acid obtained by condensing commercial chlorophenol, urea, and formaldehyde).  
 T as mothproofing agent. 531P, 1179.  
 Phenol, 4-chloro-2,6-bis(hydroxymethyl)-, with *p*-cresol.  
 T as mothproofing agent. 453P, 1179.  
 Phenol, 4-chloro-2,4-bis(hydroxymethyl)-, with 2-naphthol.  
 T as mothproofing agent. 453P, 1179.  
 Phenol, 2,5-dibromo-, with formaldehyde.  
 T as mothproofing agent. 448P, 1179.  
 Phenolsulfonic acids, with formaldehyde, substituted. (Hydroxydiarylsulfonic acids). 83P.  
 Phenolsulfonic acid, chloro-, with benzaldehyde, sulfonated.  
 T as mothproofing agent. 444P, 452P, 1179.  
 Phorone, chlorinated, with alkali metal thiocyanate. 1178, 1248P.  
 Phosphine oxide, triaryl-, with phenol.  
 T as mothproofing agent. 441P, 1179.  
 Phosphine oxide, triphenyl-, with *p*-hydroxybenzaldehyde.  
 T as mothproofing agent. 441P, 1179.  
 Piperidine, 2-methyl-, with carbon disulphide.  
 75% T aphids. 1178, 1405P.  
 2-Propanone, 1-chloro-, with KSCN. 1178, 1248P.  
 Propionic acid,  $\alpha$ -thiocyano-, ester of a formaldehyde-alloisimene. ( $\alpha$ -Thiocyanopropionate of an alcohol which is the product of condensation of formaldehyde with allo-isimene).  
 Fly spray. 99P, 112.  
 Propionic acid,  $\alpha$ -thiocyano-, ester of a formaldehyde-pinene. ( $\alpha$ -Thiocyanopropionate of an alcohol which is the product of condensation of formaldehyde with pinene).  
 Fly spray. 99P, 112.  
 Propionic acid, thiocyano-, ester of a formaldehyde-dipentene. (Thiocyanopropionate of an alcohol which is the product of condensation of formaldehyde with dipentene).  
 Fly spray. 99P, 112.  
 Propionic acid, thiocyano-, ester of reduced allo-ocimene crotonaldehyde.  
 Fly spray. 98P, 112.  
 Pyrasolone, chloro-, with alkali thiocyanate, CU. 1178, 1248P.  
 Thiocyanosacyl esters of reduced allo-ocimene-crotonaldehyde.  
 Fly spray. 98P, 112.  
 Thiocyanosacyl esters of terpene-formaldehyde.  
 Fly spray. 99P, 112.  
 $\alpha$ -Toluenesulfonic acid, dichloro-, with 2-naphthol. ( $\beta$ -Naphthol and dichlorobenzyl-*o*-sulphonic acid).  
 T as mothproofing agent. 1179, 1394P.  
 Toluene,  $\alpha,2,4,5$ -tetrachloro-, with *p*-chlorophenol, brominated.  
 T as mothproofing agent. 455P, 1179.  
 Toluene,  $\alpha,2$ -tetrachloro-, with 2-naphthol, etc. ( $\beta$ -Naphthol and trichlorobenzylchloride or another ester or ether of trichlorobenzyl alcohol in concentrated sulphuric acid with the addition of chlorosulphonic acid).  
 T as mothproofing agent. 1179, 1394P.  
 2-Toluidine, 5-chloro-, diasotised, with aminomethyl-sulphurous acid. 375P.  
 2-Toluidine, 5-chloro-, diasotised, with iminodimethyl sulphurous acid. 375P.  
 2-Toluidine, 5-chloro-, diasotised, with hexahydroaniline and acetaldehydebisulfite. 375P.  
 2-Toluidine, 6-chloro-, diasotised, with methylamino-acetaldehydebisulfite. 375P.  
 2-Toluidine, 5-nitro-, diasotised, with methylaminoethyl sulphurous acid. 375P.  
 Toluidine, 4-chloro-, diasotised, with methylamino-methyl sulphurous acid. 375P.  
 Toluidine, anilino-, diasotised, with methylamino-methyl sulphurous acid. 375P.  
 Urea, substituted.  
 T as mothproofing agent. 1013P.  
 Ureas, guanyl-, substituted.  
 T as mothproofing agents. 1013P.

# MISCELLANEOUS INSECTICIDES

Acetals. (Derived from an aldehyde having from 1 to 7 carbon atoms and an alcohol which contains a thiocyanogroup and an ether oxygen atom). 710P.

Acetic acid, thiocyanato-, esters of n-amyl ethers of  $\beta$ -pinene.

Fly spray. 92P, 112.

Acetic acid, thiocyanato-, terpinylethylene glycol ester.

Fly spray. 112, 652P.

Acetic acid, thiocyanato-, terpinylglycerol ester. (Thiocyanacetate of terpinyl glycerol ether).

Fly spray. 112, 652P.

Aceto ana amidoinoline.

NT *Pieris rapae*. 635.

Aconitine sulphate, (exact constitution not determined. (Alkaloid of *Aconitum napellus* Linn., (monkshood))).

T *Aphis rumicis*. 1152.

Acylated 4-aminoarylsulfonyl halides. 783P.

Air.

T as mothproofing agent. 585P, 1179.

Albumin, egg.

Mothproofing agent. 757P, 1179.

Alizarine saphirol SE.

T as mothproofing agent. 412P, 461P, 468P, 1175, 1176, 1356P.

Alkaloids from lupinus, (especially *L. albus angustifolius*, *luteus*, *niger*, and *perennis*) seeds.

T as mothproofing agent. 1176, 1261P.

Alkoxy carboxylic esters. 997P.

Alkoxy compounds. 590P.

Alolin. (Barbaloin; mixture of crystalline pentosides from aloe).

NT clothes moths. 739, 1176.

Ammonium chloride, dipyrindine ethylene.

MT *Aphis rumicis*. 1151.

Anthracene. (Anthracene oil, anthracin, paranaphthalene).

T as mothproofing agent; NT clothes moths (739). 331P, 739, 1176.

Anthracene pitch sulphonic acids.

T clothes moths and as aphicide. 372P, 1175.

Artabotrine.

NT aphids. 1143.

Beef extract.

NT *Culex pipiens*. 1012.

Bentonite.

T as mothproofing agent; ST spotted cucumber beetle. 756P, 1147, 1175.

Benzimidazole, 2-(D-glucosyl-D-glucosylheptahydroxyhexyl)-.

NT *Culex quinquefasciatus*. 157.

Benzine, see gasoline.

Bile salts.

T as mothproofing agent. 585P, 1179.

Bi-pseudo-cumenyl?

T as mothproofing agent. 1175, 1461P.

Bordeaux mixture, see copper sulfates, basic, 1142-1350-1359.

Bran decoction.

T Mediterranean fruit fly. 153A.

$C_{10}H_{14}O$ . (A compound crystallized from benzene in large crystals, melting at 114-115° C. and obtainable as a by-product in the manufacture of thymol from meta-cresol.) 1430P.

Cantharidin. 1264P.

Casein.

T as mothproofing and mildewproofing agents; attractant for *Culex pipiens*. 756P, 758P, 1012, 1175, 1176.

Cellulose.

T as mothproofing agent. 953P, 1179.

Cellulose, acetylated.

T as mothproofing agent. 953P, 1179, 1395P.

Cellulose xanthate, sodium salt.

T as mothproofing agent. 953P, 1179.

Civet.

ST cutworms. 1012.

Chlorophenol mercury.

T *Sitotroga cerealella*. 718.

Clay, China.

100% T *Calandra granaria*. 541.

Clay, China, sulfonic acid. 838P, 1432.

Clay, liquid, paste.

T *Hylobius abietis*. 944A.

Collodion.

T as mothproofing agent. 953P, 1179.

Corn syrup.

ST cutworms. 1012.

Cottonseed oil acids, chlorinated, cerium salts of.

T as mothproofing agent. 780P, 781P, 782P, 1176.

Cottrell dust. 1302.

Cresidine.

T screwworms at 0.33-0.67%. 156.

Creosote, coal-tar.

T as mothproofing agent. 842P, 1024, 1176, 1179, 1367P.

Creosote, wood-tar.

T as mothproofing agent. 1176, 1179, 1213AP, 1490P.

Curare.

T *Aphis rumicis*. 1152.

Diphenols, substituted. 226P.

Fats.

T as mothproofing agent. 1137P, 1175.

Flint, ground.

NT cockroaches. 1268.

Flour paste.

T red spider and young hop aphids; ST mature hop aphids. 1080B.

Flour, wheat.

NT cockroaches. 922, 1268.

Fluosilicates of crude coal tar bases. 1225P.

Fuller's earth.

NT cockroaches. 1268.

Gall. 512P.

Gas, illuminating.

NT greenhouse insects. 1041.

Gasoline. (Petrol; benzine; motor spirit; petroleum naphtha).

T ticks and as mothproofing agent; ST *Chrysomphalus aurantii*; NT clothes moths (66). 5P, 26, 42, 66, 192P, 268, 464P, 474P, 739, 926P, 927P, 1024, 1039P, 1077, 1167P, 1175, 1179, 1268, 1282P, 1310, 1341P.

Glucose derivatives, methylglycoside. 254P.

Gum arabic.

ST Oriental peach moth. 1094.

Haloalkoxyhydroxy compounds.

T as fly spray. 229P.

Haloamines. 1200P.

Haloaromatic compound. 148P, 149P, 150P.

Halocarboxylic-amides. 771P.

Helmitol.

NT Oriental peach moth. 508.

Hydroxyamines. 316P.

Kaolin.

ST spotted cucumber beetle and tent caterpillar. 119, 1147.

Kerosene ointment. (Kerosene plus lard and/or sulfur).

T poultry lice. 247.

Kerosene. (Astral oil; coal oil; paraffin oil).

T chiggers, bedbugs, flies, mosquitoes, and many other insects; T as mothproofing agent; NT clothes moths (56). 26, 42, 66, 69P, 548, 745P, 1010A, 1024, 1025, 1176, 1268.

Ketones. 792P.

- Kieselguhr.  
T as mothproofing agent. 397P, 432P, 871P, 1175, 1179.
- Lactic green.  
T Colorado potato beetle. 285.
- Leather. (Russian leather).  
T as mothproofing agent. 1077, 1176.
- Musk, artificial.  
ST cutworms. 1012.
- Naphthenic acids, copper salts. (Copper naphthenate).  
T Colorado potato and Mexican bean beetles. 606.
- Naphthenic acids, potassium salts. (Potassium naphthenate).  
ST coccids on citrus. 738A.
- Naphthenic acids, sodium salts. (Sodium naphthenate).  
ST coccids on citrus. 738A.
- Naphthenic acid, thiocyanato-, bornyl esters.  
Fly spray. 101P, 112.
- Naphthenic acid, thiocyanato-, fenchyl esters.  
Fly spray. 101P, 112.
- Naphthenic acid, thiocyanato-, isobornyl esters.  
Fly spray. 101P, 112.
- Naphthenic acid, thiocyanato-, pinene esters.  
Fly spray. 101P, 112.
- Naphthenic acid, thiocyanato-, terpinyl esters.  
Fly spray. 101P, 112.
- Nitrophenol mercury.  
T *Sitotroga cerealella*. 718.
- Numoquin hydrochloride.  
NT *Timeola bisellella* and *Attagenus piceus*. 739.
- Oil, castor, sulfonated.  
ST red spider. 960, 1086, 1157, 1432, 1452.
- Oil, coal tar, chlorinated.  
T bedbugs. 1268.
- Oil, croton.  
T *Rondotia menciaana*. 500A.
- Oil, Dippel's. (Distilled from bones).  
T Oriental peach moth. 861.
- Oil, fuel.  
T powder post beetles, termites, and surface-breathing species of mosquito larvae. 26.
- Oils, hydrocarbon.  
T as mothproofing agent. 842P, 843P, 1024, 1176.
- Oils, from Jurassic shale of Bugey. 180.
- Oil, lubricating.  
Mixed with kerosene-pyrethrum, it will keep out flies known as eye gnats, when painted on window screens;  
T as mothproofing agent. 26, 273P, 1175.
- Oil, mineral. 26, 1062, 1063, 1130, 1330.
- Oil, paraffin.  
NT tobacco worm moths. 553.
- Oil, naphthenic base petroleum.  
ST *Aphis rumicis*. 1151.
- Oil, sperm.  
T as carrier. 558A.
- Oil of tar.  
NT *Culex pipiens*. 1012.
- Orocin, (exact constitution indefinite).  
NT mosquito larvae. 487.
- Organic base, compounds with mercury selenocyanide. 321P.
- Paint, luminous.  
T *Ceratitus capitata*. 32D.
- Petrol, see gasoline.
- Petrolatum.  
T *Phenacoccus gossypii*; T as mothproofing agent. 265, 766P, 1175.
- Petroleum naphtha, see gasoline.
- Petroleum sulfonates. 1446.
- Phosphine GN.  
NT clothes moths. 739, 1176.
- Phosphine RN.  
NT clothes moths. 739, 1176.
- Plaster, carbolicised.  
T plum curculio and codling moth. 247.
- Propionic acid, thiocyanato-, terpinylethylene glycol ester.  
Fly spray. 92P, 112.
- Pyroligneous acid.  
T *Epitrix parvula*. 1012.
- Quassin.  
T aphids and as mothproofing agent. 1080B, 1179, 1282P.
- Rare earth elements, acetates of.  
T clothes moths. 757P, 1179.
- Rare earth elements, salts of.  
T clothes moths. 766P, 1175.
- Resin acid, cerium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175, 1176.
- Resin acid, copper salts. (Copper resinate).  
ST *Malacosoma americana*. 119.
- Resin acid, didymium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resin acid, lanthanum salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resin acid, lead salts. (Lead resinate).  
ST *Malacosoma americana* at 0.1%. 119.
- Resin acid, mercury salt. (Mercury resinate).  
NT *Malacosoma americana* at 0.1%. 119.
- Resin acid, sodium salt. (Sodium resinate).  
T as mothproofing agent. 833P, 1175.
- Resin acid, thallium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resin acid, thorium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resin acid, titanium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resin acid, uranium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resin acid, zinc salts. (Zinc resinate).  
NT *Malacosoma americana* at 0.1%. 119.
- Resin acid, zirconium salts.  
T as mothproofing agent. 780P, 781P, 782P, 1137P, 1175.
- Resins.  
T as mothproofing agent. 1137P, 1175.
- Road dust.  
NT cockroaches. 1268.
- Rosin.  
T termites. 1179, 1268, 1367P.
- Saponins.  
T as mothproofing agent. 585P, 1175, 1176, 1179, 1257P, 1258P, 1260P, 1261P, 1280.
- Silk, artificial.  
T as mothproofing agent. 953P, 1179.
- Soaps, alkaline earth.  
T as mothproofing agent. 103P, 1179.
- Soap, aluminum.  
T as mothproofing agent; NT clothes moths (739). 103P, 739, 1176, 1179.
- Soap, ammonium sulfo-. 53, 54, 1432.
- Soap, barium.  
T as mothproofing agent. 103P, 1179.
- Soap, benzine.  
T as mothproofing agent. 1167P, 1176.
- Soap, cadmium.  
T as mothproofing agent. 103P, 1179.
- Soap, calcium.  
T as mothproofing agent. 103P, 1179.
- Soap, castor oil.  
T various aphids. 1444A.
- Soap, chromium.  
T as mothproofing agent. 103P, 1179.
- Soap, cottonseed oil.  
T various aphids. 1444A.
- Soap, eurd.  
T gnats. 1048P, 1179.
- Soap, green.  
T as mothproofing agent. 807P, 1179.
- Soap, linseed oil.  
T various aphids. 1444A.
- Soap, magnesium.  
T as mothproofing agent. 103P, 1179.
- Soap, mercury.  
T as mothproofing agent. 103P, 1179.
- Soap, olein.  
T various aphids. 1444A.
- Soap, olive oil.  
T as mothproofing agent. 1048P, 1179.
- Soap, palm oil.  
T various aphids. 1444A.
- Soap, potash.  
T as mothproofing agent. 1038P, 1176.

- Soap, rosin.  
T various aphids. 1444A.
- Soap, seal fat.  
T various aphids. 1444A.
- Soap, sodium dolphin-blubber.  
ST coccids on citrus. 738A.
- Soap, sodium sulfo-.  
Efficient spreading agent. 53, 1432.
- Soap, suet.  
T various aphids. 1444A.
- Soap, tar.  
T as mothproofing agent. 176P, 1175.
- Soap, strontium.  
T as mothproofing agent. 103P, 1179.
- Soap, thallium.  
T as mothproofing agent. 103P, 1179.
- Soap, thorium.  
T as mothproofing agent. 103P, 1179.
- Soap, titanium.  
T as mothproofing agent. 103P, 1179.
- Soap, uranium.  
T as mothproofing agent. 103P, 1179.
- Soap, whale oil.  
T various aphids. 1444A.
- Soap, zinc.  
T as mothproofing agent. 103P, 1179.
- Soap, zirconium.  
T as mothproofing agent. 103P, 1179.
- Spermaceti. 558A.
- Sulfogene brown.  
73% T codling moth larvae. 1291.  
Sulphogene carbon 2-brom. Schultz #1078.  
83% T codling moth larvae; NT mosquito larvae. 487, 1291.
- Sulphogene golden brown G, Schultz #1058.  
94% T codling moth larvae; NT mosquito larvae. 487, 1291.
- Sulfogene yellow.  
82% T codling moth larvae. 1291.
- Sulphogene yellow D, Schultz #1064.  
NT mosquito larvae. 487.
- Sulfonaphthenic acids.  
Used for cotton plants. 6, 1432.
- Sulfonated diamine.  
T Mexican bean beetle and cotton leaf worm. 722P.
- Sulfonaphthalene, chloro-.  
T as mothproofing agent. 417P, 1175.
- Sulfonic acids, alkyl-. 70P, 746P.
- Sulfonic acids, montanic acid esters. 358P, 1178.
- Sulphur brown R, extra.  
NT mosquito larvae. 487.
- Talcum. (Talkum; talk; tale).  
100% T *Calandra granaria*; T as mothproofing agent. 394P, 395P, 397P, 432P, 467P, 541, 643P, 867P, 922, 1175, 1176, 1259P.
- Tannin. (Probably penta-digalloyl glucose). (Digallic acid; "Gallapfelgerbsaeure"; gallotannic acid; tannic acid).  
T as mothproofing agent; NT *Sitotrepa panicea*; NT clothes moths (739). 77P, 739, 750, 1036P, 1176.
- Tar.  
T as mothproofing agent; NT wireworms. 1176, 1261P, 1310, 1396, 1469P, 1258P.
- Tar, settled wood.  
NT *Melanoplus m. mexicanus*. 1150.
- Tartar.  
T as mothproofing agent. 1133P, 1179.
- Terbene, (mixture of terpene hydrocarbons).  
T *Aphis rumicis*. 1152.
- Tetraldon.  
NT *Tineola biselliella* and *Attagenus piceus*. 739.
- Thioammeline, polyethers of. 145P.
- Thiocumazone.  
100% T mosquito larvae. 172.
- Thiocyanate with the formula Co(CNS)CHN (as given by author).  
NT *Pieris rapae*. 635.
- Thiocyanate with the formula Cu(CNS)CHN (as given by author).  
NT *Pieris rapae*. 635.
- Thiocyanate with the formula Ni(CNS)CHN (as given by author).  
NT *Pieris rapae*. 635.
- Thiocyanate with the formula Zn(CNS)CHN (as given by author).  
NT *Pieris rapae*. 635.
- Thiocyanate, triethyl lead aceto.  
T many insects as spray. 161P.
- Thiocyanoscyate, hydroterpinyl ester.  
Fly spray. 91P, 112.
- Thiocyanoscyate, terpene esters.  
Fly spray. 97P, 112.
- Thiocyanoscyate, terpene esters.  
Fly spray. 92P, 112, 652P.
- Thiocyanoscyate, terpinyl ester.  
Fly spray. 96P, 112.
- Thiocyano organic acid, terpenol ester.  
Fly spray. 95P, 112.
- Thiocyano compounds.  
Fly spray. 112, 223P, 1032P.
- Thioethers. (Organic sulfides). 1140P, 1432.
- Thyroxine (with  $C_{24}(AsO_4)_2$ ). 1262P.
- Tin compound. 361P.
- Trithiodiphenylamine.  
NT adult Mexican bean beetles. 606.
- 8-Truxene.  
86% T codling moths. 1291.
- Turpentine. (Spirits of turpentine; oil of turpentine; terpeninol).  
T bedbugs and as mothproofing agent. 66P, 1077, 1138P, 1175, 1176, 1258P, 1261P, 1268.
- Urine, stale.  
T *Aegeria exitosa*. 1012.
- Varnish.  
T as mothproofing agent. 1138P, 1175.
- Veratrin (exact constitution indefinite). (Cevadin).  
T codling moth larvae; NT Japanese beetles. 915, 1008.
- Vinegar.  
T cutworms. 1012.
- Viscose.  
T as mothproofing agent. 953P, 1179.
- Vusin hydrochloride, (exact constitution indefinite). (Iso-octyl-hydro-cupreine-dihydrochloride; vusin bi-hydrochloride).  
NT clothes moths. 739, 112.
- Waxes.  
T as mothproofing agent. 1137P, 1175, 1176, 1469P.
- Wax, bees.  
T as carrier. 558A.
- Wax, paraffin.  
T as carrier. 558A, 992.
- White spirit.  
T as mothproofing agent. 781P, 1176.
- Wood distillates.  
T as mothproofing agent. 1175, 1213AP.
- Wool-fat emulsion.  
T *Calandra granaria*. 815A.
- Yeast cake.  
T *Lasioderma serricornis*. 1012.
- Ziderite.  
T *Epilachna corrupta*. 896A.

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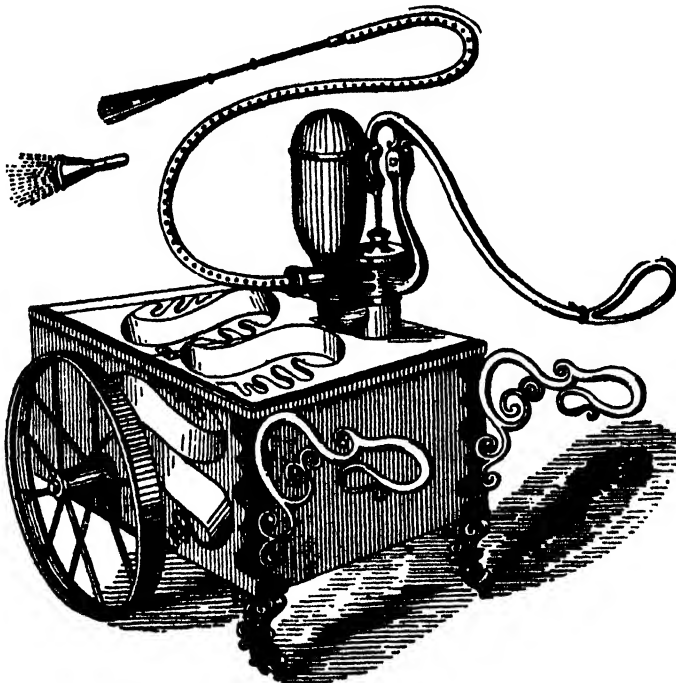
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**Arranged Alphabetically by Countries and in Order of Patent Numbers**

AUSTRALIAN PATENTS	Reference Numbers	BRITISH PATENTS (Cont'd)	Reference Numbers
8103/32	1405	346,039	421
8210/32	594	347,292	278
20,655/34	1132	347,451	357
		349,004	383
<b>AUSTRIAN PATENTS</b>		356,192	362
99,430	885	358,508	360
114,042	396	361,900	1203
114,458	397	364,046	1414
118,640	398	365,233	422
123,423	399	366,090	423
123,881	437	367,913	319
124,284	438	368,179	807
139,130	1348	374,928	186
146,198	732	383,493	439
151,988	512	389,860	638
		391,141	307
<b>BELGIAN PATENT</b>		396,064	301
379,339	1281	399,938	1282
		399,952	1396
<b>BRITISH PATENTS</b>		403,957	103
10,379	2	406,979	304
13,071	833	407,356	440
19,688	1	407,691	595
160,039	1036	407,708	596
173,536	327	413,445	882
191,793	890	413,557	883
221,599	69	419,179	194
225,262	839	423,462	531
230,203	1258	424,572	1451
235,914	982	426,051	302
235,915	975	428,542	305
236,218	976	429,615	70
236,218	328	431,064	838
240,856	379	431,945	597
241,242	781	436,327	300
249,830	187	437,151	593
253,993	842	437,151	810
257,644	1213	442,525	350
261,241	843	452,656	813
263,092	740	457,119	344
274,425	459	458,179	345
285,825	460	463,544	282
295,742	461	467,044	36
297,484	377	493,764	841
298,538	400	494,766	1200
299,055	462	496,290	56
301,421	977	500,197	237
303,092	463	500,386	530
309,610	375	503,490	736
310,815	374	506,308	1199
310,825	401	507,221	236
312,163	394	512,691	238
313,043	1167	526,066	293
313,771	615	528,752	540A
316,900	402		
316,987	403	<b>CANADIAN PATENTS</b>	
317,525	380	247,378	1257
321,786	269	261,810	1342
324,041	371	275,901	912
324,962	464	280,549	465
325,910	372	292,391	973
326,137	404	292,416	1243
326,451	405	338,896	5
326,567	406	338,897	927
326,803	381	354,650	1226
327,009	1164	357,959	576
330,598	407	372,491	1512
330,893	408		
330,894	409	<b>DUTCH PATENTS</b>	
331,596	363	20,526	432
333,561	410	20,570	433
333,583	411	21,982	384
333,584	412	25,565	441
334,888	413	42,418	57
335,547	414	48,063	55
337,808	415		
337,823	416	<b>FRENCH PATENTS</b>	
337,832	417	35,174	399
338,196	418	37,924	443
340,318	419	39,013	424
340,319	420	39,334	443
		39,337	444

FRENCH PATENTS (Cont'd)	Reference Numbers	GERMAN PATENTS (Cont'd)	Reference Numbers
40,647	445	409,510	1231
42,266	446	411,345	489
43,866	527	416,706	1038
518,821	329	419,463	1259
545,930	1270	419,464	1365
581,037	330	421,100	1260
603,552	782	430,186	77
625,390	741	442,901	473
635,973	466	449,126	474
636,434	467	450,418	475
646,479	468	460,545	873
651,646	469	468,914	1356
654,416	385	469,094	876
654,712	470	469,256	643
661,727	471	470,453	1137
661,931	472	481,679	1138
662,431	373	484,995	1237
664,151	828	485,059	1212
670,674	425	485,101	1357
675,413	395	485,573	742
677,340	1388	485,646	641
681,795	426	488,138	868
684,447	386	488,307	188
685,123	427	490,221	1400
686,721	428	496,281	388
688,418	279	500,333	642
694,994	364	501,135	815
696,326	1204	502,600	1242
699,410	273	503,256	1455
700,870	429	504,886	1399
702,703	387	506,085	1335
707,840	430	506,770	1363
709,010	184	506,987	867
711,290	1387	506,988	730
713,082	1335	506,989	1457
717,976	431	507,097	1358
718,260	824	512,871	1262
725,587	361	513,387	1463
726,111	359	513,388	1464
735,959	1336	513,632	829
758,153	195	515,956	869
758,192	447	520,184	1461
759,662	532	520,330	1245
760,352	637	521,205	870
766,051	353	522,824	633
766,945	533	524,590	679
767,044	391	524,624	855
774,692	884	526,611	1165
785,481	1050	527,267	366
791,172	851	528,704	1360
795,668	1128	530,219	1466
796,103	602	530,331	1362
798,734	162	532,394	825
800,486	1250	534,338	1393
802,866	1255	534,676	1239
803,509	392	535,152	1462
804,545	393	536,851	1458
805,545	346	537,024	448
805,750	58	537,768	509
807,769	347	539,182	449
810,521	1201	540,208	450
810,522	1205	541,279	451
814,435	343	541,629	1361
815,634	524	542,067	452
816,921	58A	542,068	453
817,182	525	542,069	454
818,994	526	544,293	1455
842,307	254	545,740	455
842,975	518	546,097	1246
844,708	280	547,057	883
848,003	539A	548,091	684
874,260	737	548,822	1247
		550,961	1453
		551,513	358
		553,856	684
		562,672	1248
		576,411	1202
		581,990	953
		583,344	456
		588,851	939
		595,106	580
		595,849	487
		627,144	1133
		653,089	540
		669,541	1264
		670,833	71
		675,972	1244
		692,659	1159
		699,032	891
		700,609	1442
		701,075	1513
			83

<b>JAPANESE PATENTS</b>	<b>Reference Numbers</b>	<b>U. S. PATENTS (Cont'd)</b>	<b>Reference Numbers</b>
78,953	1298	1,764,792	746
91,194	809	1,766,819	639
128,857	1040	1,786,173	1196
		1,787,686	916
<b>RUSSIAN PATENT</b>		1,789,565	1216
4,555	604	1,791,429	1163
		1,794,046	1474
<b>SWEDISH PATENTS</b>		1,797,877	994
59,841	936	1,808,693	673
60,110	10	1,813,109	48
80,538	11	1,815,816	1473
89,021	321	1,816,441	1085
		1,819,399	1475
<b>SWISS PATENTS</b>		1,825,729	682
101,949	37	1,841,458	1356
125,139	743	1,843,993	909
134,012	434	1,843,332	908
135,168	435	1,851,007	1430
142,372	176	1,854,948	926
148,330	436	1,875,699	681
162,058	534	1,880,666	1456
168,030	535	1,884,367	1367
168,031	536	1,885,292	1166
168,032	537	1,901,980	585
168,377	538	1,903,864	680
167,697	539	1,906,890	1459
184,004	482	1,907,493	131
196,873-7	523	1,910,488	1460
201,549	522	1,910,938	1394
202,722-25	520	1,912,814	1494
206,359	529	1,915,923	192
208,872	528	1,917,463	1228
		1,921,364	871
<b>UNITED STATES PATENTS</b>		1,921,926	787
20,869 ( <i>Reissue</i> )	107	1,923,223	872
22,217 ( <i>Reissue</i> )	1088	1,924,507	897
269,739	1213A	1,932,595	1035
387,579	245	1,942,532	1037
929,527	1801	1,948,894	1468
1,019,909	992	1,961,940	85
1,085,783	40	1,962,109	18
1,097,406	317	1,962,276	731
1,216,356	1101	1,971,436	1454
1,381,586	1049	1,972,961	1406
1,448,276	823	1,975,408	1240
1,480,289	1039	1,977,412	1341
1,494,086	1416	1,982,358	1311
1,514,732	1417	1,986,044	178
1,558,122	1343	1,986,218	1135
1,562,610	874	1,990,422	1480
1,573,490	622	1,992,160	1397
1,591,902	1469	1,993,040	1227
1,594,631	1209	1,994,002	966
1,594,632	1210	1,994,467	500
1,610,167	1261	1,995,247	636
1,611,119	862	2,000,004	4
1,613,402	913	2,005,797	998
1,615,843	744	2,006,456	747
1,619,529	1021	2,008,095	196
1,620,537	1490	2010,443	1283
1,630,836	297	2,011,428	1444
1,634,790	963	2,011,765	738
1,634,791	978	2,014,077	1492
1,634,792	979	2,017,594	564
1,634,793	980	2,017,595	562
1,634,794	984	2,019,121	277
1,645,791	136	2,024,027	260
1,645,792	137	2,024,068	674
1,645,852	138	2,030,093	107
1,655,540	506	2,037,457	1206
1,658,596	574	2,037,718	596
1,682,975	938	2,040,039	142
1,688,597	1124	2,043,941	1489
1,694,219	745	2,044,934	161
1,707,181	1467	2,044,959	1402
1,707,727	769	2,045,925	1136
1,716,273	749	2,046,128	935
1,719,523	1351	2,049,725	1320
1,725,656	844	2,057,044	940
1,727,305	993	2,062,911	785
1,732,240	945	2,067,532	748
1,734,519	621	2,070,352	72
1,734,682	875	2,070,353	73
1,788,280	154A	2,070,603	793
1,789,840	780	2,070,634	1479
1,744,324	934	2,073,816	1082
1,744,633	640	2,075,265	866
1,748,879	972	2,075,359	1225
1,748,880	981	2,076,364	160
1,748,653	130	2,077,478	711
1,748,675	877	2,077,479	710
1,755,178	592	2,077,960	1284
1,787,222	1241	2,080,770	575
1,788,734	917	2,086,048	1114
1,788,836	291	2,087,759	1189
1,761,144	999	2,093,778	818
		2,094,831	1478

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2,094,940	1440	2,212,239	1399
2,094,941	1441	2,212,636	132
2,094,414	1439	2,213,119	133
2,097,136	1308	2,213,156	600
2,097,137	1309	2,212,214	690
2,097,435	28	2,213,215	691
2,097,441	141	2,213,216	692
2,098,304	1095	2,213,217	693
2,098,759	1140	2,213,218	694
2,099,835	1223	2,213,219	695
2,100,493	1325	2,217,268	241
2,101,487	853	2,217,811	90
2,101,643	600	2,217,812	81
2,101,649	601	2,217,813	86
2,101,704	271A	2,217,814	87
2,102,195	760	2,217,815	88
2,102,727	563	2,217,873	216
2,107,206	799	2,218,019	222
2,110,814	1433	2,218,020	223
2,110,896	1435	2,220,331	600
2,110,897	1436	2,220,332	181
2,111,879	1434	2,220,335	183
2,112,381	1223	2,231,771	14
2,114,577	1264	2,231,818	1301
2,115,046	1316	2,231,819	1307
2,121,038	944	2,231,820	1306A
2,121,039	945	2,231,831	1411
2,122,781	1223	2,232,486	1090
2,123,186	314	2,233,329	1016
2,123,864	670	2,233,363	400
2,124,400	678	2,233,693	900
2,127,090	1317	2,234,243	108
2,127,375	104	2,235,573	1339
2,128,195	1306	2,235,618	123
2,129,025	1160	2,235,619	120
2,129,294	1483	2,236,672	1315
2,130,435	1359	2,237,068	99
2,130,525	226	2,237,059	100
2,130,526	228	2,237,090	101
2,130,537	229	2,237,081	103
2,130,947	173	2,237,215	145
2,133,972	227	2,238,170	794
2,134,001	968	2,239,010	125
2,134,556	687	2,232,433	94
2,135,391	480	2,232,434	93
2,138,540	502	2,234,381	1017
2,140,481	1206	2,235,813	608
2,155,010	505	2,237,356	948
2,155,356	126	2,239,079	218
2,158,957	230	2,239,080	221
2,158,958	231	2,239,495	92
2,158,959	232	2,239,496	682
2,158,960	233	2,239,832	1213
2,158,025	604	2,243,207	651
2,161,558	312	2,243,479	698
2,164,355	1299	2,244,308	1018
2,166,118	1294	2,244,309	1019
2,166,119	105	2,244,712	816
2,173,386	1431	2,246,924	1023
2,181,100	1300	2,247,402	1090
2,186,183	219	2,247,404	1099
2,186,185	208	2,249,134	669
2,186,207	863	2,249,135	670
2,186,208	864	2,254,009	666
2,189,570	1235	2,254,665	1126
2,191,299	1294	2,257,711	206
2,191,300	1315	2,259,869	12
2,191,301	1314	2,261,677	263
2,192,197	969	2,261,784	857
2,192,347	700	2,261,785	858
2,192,894	174	2,261,786	859
2,192,906	624	2,261,787	860
2,192,927	1915	2,261,856	865
2,194,075	1191	2,261,857	866
2,194,517	109	2,262,907	719
2,194,924	294	2,262,931	140
2,197,249	197	2,263,471	1368
2,197,624	723	2,269,541	316
2,198,375	139	2,269,543	653
2,199,389	127	2,269,544	657
2,200,603	678	2,269,546	659
2,200,594	1236	2,269,547	664
2,201,103	274	2,269,550	1199
2,201,156	317	2,290,710	1141
2,201,157	323	2,290,831	771
2,201,158	324	2,291,192	1231
2,203,919	1983	2,291,193	1232
2,204,009	147	2,291,194	1233
2,204,511	1127	2,291,626	148
2,204,545	124	2,291,627	149
2,205,232	1404	2,291,628	150
2,205,392	213	2,292,756	619
2,205,393	214	2,292,998	645
2,205,394	215	2,293,025	80
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A CATALOGUE  
OF  
INSECTICIDES AND  
FUNGICIDES

*compiled by*  
DONALD E. H. FREAR, Ph.D.

*Professor of Agricultural and Biological Chemistry,  
The Pennsylvania State College*

*With a Foreword by F. F. LININGER*

*Volume II*  
CHEMICAL FUNGICIDES  
AND PLANT INSECTICIDES



1948

WALTHAM, MASS., U.S.A.

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ANNALES CRYPTOLOGAMICI et PHYTOPATHOLOGICI •

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Volume VIII

CHEMICAL FUNGICIDES  
*and* PLANT INSECTICIDES

# ANNALES CRYPTOGRAMICI et PHYTOPATHOLOGICI *(incorporating Annales Bryologici)*

*edited by*

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International Union of Biological Sciences.*

*Wij en kunnen den Heer en maker van het geheel  
Al niet meer verbeertjken, als dat wij in alle zaken,  
hoe klein die ook in onse bloote oogen mogen zijn, als  
ze maar leven en wasdom hebben ontfangen, zijn al  
uistheit en volmaaktheit, met de uiterste verwondering  
sien uit steken.*

*Antoni van Leeuwenboek*

1948

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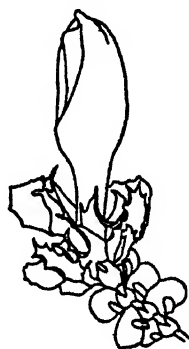
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## FOREWORD

*This compilation represents a portion of the work under Project 999 of the Pennsylvania Agricultural Experiment Station, begun during World War II in an effort to find new insecticides and fungicides to replace those made scarce by war restrictions on shipping and other disruptions of the normal flow of commercial materials. It was the opinion of the leaders of this project that before any concerted effort could be made to search for new pest-control chemicals, previous work in this field should be surveyed completely. This catalogue is a result of the survey.*

*Covering as it does the results of biological testing on a group of approximately 10,000 materials, this catalogue should be of wide use to scientists in the field of insecticides and fungicides. Studies on these pest-control materials have been greatly stimulated within recent years by the discovery of DDT, hexachlorocyclohexane and other new chemicals of high promise. Research work along these lines is assuming an increasingly important place in both industrial and institutional laboratories.*

*The work involved in the preparation of this catalogue differs considerably from that usually conducted under a research project of an Agricultural Experiment Station. It represents the collection and correlation of pertinent facts from a large mass of scientific information, accumulated over a period of years in one field of research, but scattered in many technical publications. With the tremendous increase in scientific knowledge, it will be necessary to condense and compile known facts frequently in future years, if the time of the workers is to be used to best advantage. In many cases, the bringing together of known facts is as important a contribution to research as the discovery of new information.*

*It is a pleasure, therefore, to commend the present catalogue to research workers in entomology, plant pathology, and chemistry. The large amount of time which Dr. FREAR has spent in the preparation of these volumes, particularly also in the extensive index of compounds which concludes this, the second volume of his work, will be more than repaid, in the aggregate, by the saving of effort on the part of many individual students and investigators who will be spared the necessity of long and tedious literature searches.*

F. F. LININGER, Director,  
The Pennsylvania Agricultural Experiment Station.



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## PREFACE

*During recent years a great deal of research has been directed toward the finding of new materials for controlling insects and fungi. The discovery of rotenone, a natural product, and several promising synthetic organic chemicals, such as the organic thiocyanates, chloranil, and DDT, have intensified the search for other new and better insecticides and fungicides. The literature on the subject is already voluminous, and nearly every issue of the technical journals contains one or more papers dealing with the testing of new materials against insects and fungi.*

*There is no doubt that new pest-control substances are needed. Many of the commonly used materials are not highly efficient, and most of those which have high toxicity to the lower forms of life are toxic to man and other higher animals to a dangerous degree. Commercially, a rich prize awaits the discoverer of any new insecticide or fungicide which can be demonstrated to have properties superior to the presently used materials.*

*For the most part, the search for new insecticides and fungicides has been a rather haphazard affair. Certain plant families or chemical combinations of demonstrated toxicity have been investigated thoroughly, but outside of these limited fields, the search has been lacking in continuity of effort. At this institution a research project on new insecticides and fungicides was instituted several years ago. In an attempt to approach the problem from a more scientific point of view, it was decided (a) to make a thorough search of the published literature on the subject and (b) to correlate the results of these tests with various physical and chemical properties of the materials used in order to arrive, if possible, at some conclusions regarding the nature of toxic action.*

*The literature search involved the examination of many journals, from which approximately six thousand materials were obtained. An appeal to workers in the field for unpublished data (SCIENCE, December 31, 1943) resulted in the addition of several thousand more substances. It was felt that the publication of a catalogue of the materials thus collected, in a form available for all investigators working with insecticides and fungicides would be of considerable value: first, because it would collect in one place all or nearly all of the published results on tested materials, and would thus save time ordinarily spent in literature searches, and secondly, a brief summary of previous work would result in the elimination of duplication in further studies, making possible a tremendous saving in time and energy for research workers. \**

*This, then, is the background for the present catalogue, and the reasons for its presentation. The compilation alone has involved a great deal of routine work, and on the completion of this phase there remained the problem of classification. This was solved by the expedient of a new system of classification, the details of which are given in the Introduction which follows this*

*Preface.* Unfortunately it was not possible to devise any extremely simple system of classification to accommodate the several thousand compounds included, but the system here presented will be easily understood by anyone with a knowledge of chemistry.

Although every effort has been made to make this catalogue as complete as possible up to January, 1944, there are undoubtedly numerous omissions. Since the main purpose of the compilation was to gather information on the less commonly used materials, no effort was made to cover the literature on widely used insecticides and fungicides, such as nicotine, lead arsenate, sulfur, and a number of others. The literature on some of these materials has been summarized adequately by other workers.

The compounds listed herein are named according to the system of nomenclature of the American Chemical Society, as used in CHEMICAL ABSTRACTS. In many cases in which the original authors gave only a general name, or one lacking in specificity, the most logical chemical constitution has been selected, and may be indicated as questionable. In some few cases the name or constitution given in the original publication has been found to be chemically impossible; these are so indicated. All plant names conform to those given in STANDARDIZED PLANT NAMES (second edition, 1942, J. H. McFarland Company, Harrisburg, Pa.).

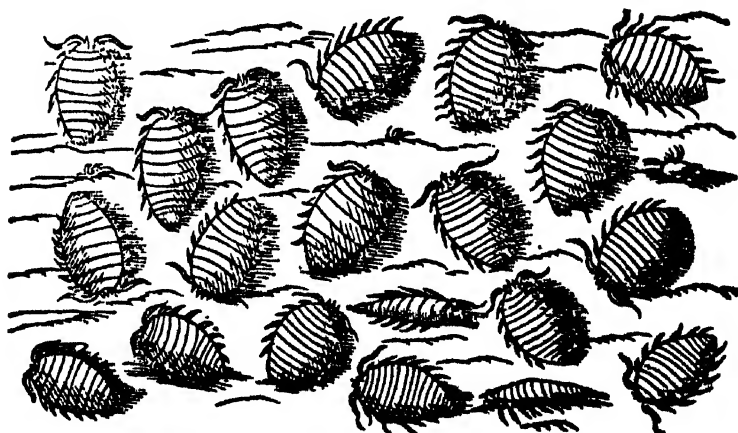
This compilation would have been impossible without the splendid cooperation of a number of people. Among those who have given freely of their time and knowledge in the preparation of this catalogue are the following: Mrs. HELEN MILLER, Mrs. NORMA PIANKA, Miss FRANCES SUNDAY, Dr. HERMAN KING and Professor G. W. PEARCE. A number of workers of the Committee on Medical Research, Office of Scientific Research and Development, under the direction of Dr. C. C. STOCK, assisted materially in the naming of chemical compounds. Particular mention should be made to the invaluable contributions of Dr. E. J. SEIFERLE, especially on the classification and naming of the organic compounds published in this catalogue. Published and unpublished materials were contributed generously by nearly one hundred workers in the fields covered. Specific mention should be made of the extensive contributions of Dr. ROY HANSBERRY, Dr. E. D. WITMAN, Dr. ERWIN DICYAN, Dr. W. W. ALLEN, Dr. H. C. BREWER, Dr. J. G. HORSFALL, Dr. W. McMAHON, Dr. J. M. LEMON and Dr. S. E. A. MCCALLAN. The author expresses his obligation and appreciation to all of these. It is the author's hope that if this catalogue serves a useful purpose, it may form the basis for other compendia. To this end he will welcome any further contributions of published or unpublished material, as well as suggestions or corrections of the present work.

DONALD E. H. FREAR

State College, Pa.

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PIERRE MARIE ALEXIS MILLARDET (1838-1902), the discoverer of Bordeaux mixture, drawn by G. W. DILLON after a contemporary portrait. English translations of MILLARDET's classic papers on the prophylactic effects of a copper sulphate-lime mixture against the mildew of vines will be found in *Phytopathological Classics*, No. 3 (1933). "This discovery is probably as momentous as any event in the whole history of our efforts to control plant pathogens. This fungicide was the first to be used on a large scale the world over. The rapidity of its adoption and general use wherever certain diseases of fruits and vegetables occur, indicates how economically fortunate was MILLARDET's observation along the highways of Médoc." (SCHNEIDERHAN, *l.c.*)—The vignettes on pages xi, 19 and 154 have been reproduced from various editions of MATTHIOLI's herbals. The tailpiece on page 96 was first used in LODERMAN's "The Spraying of Plants" (1896), the vignette on page 153 has been taken from an early volume of the *Gartenflora*.

# INTRODUCTION

## Arrangement of Compounds—Coding System:—

*General.*—The problem of classifying chemical compounds presents many difficulties. Any simple system, such as an alphabetical arrangement, does not take into consideration the chemical relationships involved, and makes the task of locating related compounds extremely difficult. On the other hand, the complexity of many compounds, particularly those of an organic nature, renders any attempt at complete cross-indexing cumbersome to the point of physical impossibility.

After considerable experimentation with various methods of classification, a new system has been evolved. Approximately 10,000 compounds have been classified by means of this system, with satisfactory results, and it is believed that anyone with an understanding of chemistry can use the system to classify compounds or to locate those already classified.

Briefly, the present system consists of assigning to each chemical compound a "code number". This code number is made up of the numbers assigned to each constituent group present in the compound, according to the prearranged code list given below. In use, the constituent groups in each compound to be coded are assigned numbers beginning with the one bearing the lowest number, and followed by the other constituent groups in numerical order. The length of the code number for any given compound will depend upon the variety of constituent groups present in that particular compound.

### (CH)ONSX

Bromosulfonamides	.....—SO <sub>2</sub> NHBr	1
Chlorosulfonamides	.....—SO <sub>2</sub> NHCl	3
Fluorosulfonamides	.....—SO <sub>2</sub> NHF	5
Iodosulfonamides	.....—SO <sub>2</sub> NHI	7
Halosulfonamides	.....—SO <sub>2</sub> NHX	9
Mixed———	.....—SO <sub>2</sub> NBrCl	15
	.....—SO <sub>2</sub> NBrF	16
	.....—SO <sub>2</sub> NBrI	17
	.....—SO <sub>2</sub> NCIF	18
	.....—SO <sub>2</sub> NCII	19
	.....—SO <sub>2</sub> NFI	20
Sulfamyl halides	... H <sub>2</sub> NO <sub>2</sub> SX	22

### (CH)ONS

Amidosulfides	.....—CONHSNCO—	43
Oxothiocyanates		
(oxoiso-thiocyanates)	.....—CONCS(—COSCN)	52
Sulfonamides	.....—SO <sub>2</sub> NH <sub>2</sub>	56

Sulfamides .....	$H_2NSO_2NH_2$ .....	57
Hydrazine sulfonates .....	$H_2NNHSO_2H$ .....	60
Sulfonyl hydrazines .....	$H_2NNHOS-$ .....	61
Hydrazine sulfinates .....	$H_2NNHS(:O)OH$ .....	62
Sulfamates .....	$H_2NSO_2H$ .....	65
Thiourethanes .....	$H_2NC(:S)OH$ or $H_2NC(:O)SH$ .....	69

## (CH)ONX

Bromoamides .....	$-CONHBr$ .....	100
Chloroamides .....	$-CONHCl$ .....	102
Fluoroamides .....	$-CONHF$ .....	104
Iodoamides .....	$-CONHI$ .....	106
Haloamides .....	$-CONHX$ .....	108
Mixed .....	$-CONBrCl$ .....	115
	$-CONBrF$ .....	116
	$-CONBrI$ .....	117
	$-CONClF$ .....	118
	$-CONClI$ .....	119
	$-CONFI$ .....	120
Bromoimides .....	$-C(:NBr)OH$ .....	125
Chloroimides .....	$-C(:NCl)OH$ .....	126
Fluoroimides .....	$-C(:NF)OH$ .....	127
Iodoimides .....	$-C(:NI)OH$ .....	128
Haloimides .....	$-C(:NX)OH$ .....	129

## (CH)OSX

Sulfobromides .....	$-SO_2Br$ .....	150
Sulfochlorides .....	$-SO_2Cl$ .....	151
Sulfofluorides .....	$-SO_2F$ .....	152
Sulfoiodides .....	$-SO_2I$ .....	153
Sulfohalides .....	$-SO_2X$ .....	154

## (CH)NSX

## (CH)ON

Guanylurea derivatives .....	$H_2NC(:NH)NHCONH_2$ .....	173
Carbasides .....	$H_2NNHCONHNH_2$ .....	175
Semicarbazides .....	$H_2NNHCONH_2$ .....	176
Semicarbazones .....	$=NNHCONH_2$ .....	179
Azoxy compounds .....	$-NN(:O)-$ .....	182
Urea derivatives .....	$H_2NCONH_2$ .....	183
Hydrazides .....	$-CONHNH_2$ .....	184
Amides .....	$-CONH_2$ .....	185
	$-CONH-$ .....	186
	$-CON=$ .....	187
Hydroxylamines .....	$HONH_2$ .....	188
Carbamates (urethanes) .....	$H_2NCOOH$ .....	189
Oximes .....	$=NOH$ .....	190
Nitroso compounds .....	$-NO$ .....	192
Nitrosoamines .....	$H_2NNO$ .....	194
Amine oxides .....	$NO$ .....	196
Nitroamino compounds .....	$H_2NNO_2$ .....	198
Cyanates .....	$-OCN$ .....	200
Isocyanates .....	$-NCO$ .....	201

Nitro compounds, mono-, .....	—NO <sub>2</sub> .....	206
di-, .....	(—NO <sub>2</sub> ) <sub>2</sub> .....	207
tri-, .....	(—NO <sub>2</sub> ) <sub>3</sub> .....	208
	(—NO <sub>2</sub> ) <sub>n</sub> .....	209
Nitrites (organic only) .....	—ONO .....	210
Nitrates (organic only) .....	—ONO <sub>2</sub> .....	211

*Heterocyclic CHON Compounds:—*

More than 6 members in ring .....		220
6 Members in ring		
Oxazines (morpholine) .....	C <sub>4</sub> ON .....	230
Oxadiazines .....	C <sub>4</sub> ON <sub>2</sub> .....	231
Oxatriazines .....	C <sub>5</sub> ON <sub>2</sub> .....	232
Oxatetrazines .....	CON <sub>4</sub> .....	233
Dioxazines .....	C <sub>3</sub> O <sub>2</sub> N .....	234
Dioxadiazines .....	C <sub>3</sub> O <sub>2</sub> N <sub>2</sub> .....	235
Dioxatriazines .....	CO <sub>2</sub> N <sub>2</sub> .....	236
Trioxazines .....	C <sub>3</sub> O <sub>2</sub> N .....	237
Trioxadiazines .....	CO <sub>2</sub> N <sub>2</sub> .....	238
Tetroxazines .....	CO <sub>4</sub> N .....	239
5 Members in ring		
Oxazoles (furomonazoles) .....	C <sub>3</sub> ON .....	242
Oxadiazoles (azoxime, furozan, furo (bb) diazole) .....	C <sub>3</sub> ON <sub>2</sub> .....	243
Oxatriazoles .....	CON <sub>3</sub> .....	244
Dioxazoles .....	C <sub>3</sub> O <sub>2</sub> N .....	245
Dioxadiazoles .....	CO <sub>2</sub> N <sub>2</sub> .....	246
Trioxazoles .....	CO <sub>3</sub> N .....	247
4 Members in ring		
Betaine .....	C <sub>2</sub> ON .....	248

*(CH)OS*

Xanthates .....	—OCSSH .....	250
Sulfonic acids .....	—SO <sub>3</sub> H .....	258
Sulfinic acids .....	—S(:O)OH .....	261
Sulfones .....	—SO <sub>2</sub> — .....	264
Sulfoxides .....	—SO— .....	265
Thiolates .....	—C(:O)SH .....	267
Thionates .....	—C(:S)OH .....	269

*Heterocyclic CHOS Compounds:—*

More than 6 members in ring .....		290
6 Members in ring		
Oxathianes .....	C <sub>4</sub> OS .....	301
Oxadithianes .....	C <sub>4</sub> OS <sub>2</sub> .....	302
Oxatrithianes .....	C <sub>5</sub> OS <sub>2</sub> .....	303
Oxatetrathianes .....	COS <sub>4</sub> .....	304
Dioxathianes .....	C <sub>3</sub> O <sub>2</sub> S .....	305
Dioxadithianes .....	C <sub>3</sub> O <sub>2</sub> S <sub>2</sub> .....	306
Dioxatrithianes .....	CO <sub>2</sub> S <sub>2</sub> .....	307
Trioxathianes .....	C <sub>3</sub> O <sub>2</sub> S .....	308
Trioxadithianes .....	CO <sub>2</sub> S <sub>2</sub> .....	309
Tetroxathianes .....	CO <sub>4</sub> S .....	310



5 Members in ring

Oxathiolanes .....	C <sub>3</sub> OS	315
Oxadithiolanes .....	C <sub>3</sub> OS <sub>2</sub>	316
Oxatrithiolanes .....	COS <sub>3</sub>	317
Dioxathiolanes .....	C <sub>2</sub> O <sub>2</sub> S	318
Dioxadithiolanes .....	CO <sub>2</sub> S <sub>2</sub>	319
Trioxathiolanes .....	CO <sub>3</sub> S	320

(CH)OX

Haloformic acid .....	XCOOH (R)	328
Acylbromides .....	—COBr	330
Acylchlorides .....	—COCl	331
Acylfluorides .....	—COF	332
Acyliodides .....	—COI	333
Unspecified acylhalides .....	—COX	334
Iodoso compounds .....	—IO	340
Iodoxy compounds .....	—IO <sub>2</sub>	341
Iodonium compounds .....	=IOH	342
Oxonium halides .....	≡OX	350

(CH)NS

Thiuram disulfides .....	H <sub>2</sub> NC(:S)SSC(:S)NH <sub>2</sub>	360
Thiuram sulfides .....	H <sub>2</sub> NC(:S)SC(:S)NH <sub>2</sub>	365
Dithiocarbamates .....	—SC(:S)NH <sub>2</sub>	370
	—SC(:NH)SH	373
Thiocarbazides .....	H <sub>2</sub> NNHCSNHNH <sub>2</sub>	374
Thiosemicarbazides .....	H <sub>2</sub> NNHCSNH <sub>2</sub>	375
Thioureas .....	H <sub>2</sub> NCSNH <sub>2</sub>	376
Isothioureas .....	HSC(:NH)NH <sub>2</sub>	377
Thioamides .....	—CSNH <sub>2</sub>	385
Thioimides .....	—C(:NH)SH	386
Sulfuramines .....	—SNH <sub>2</sub>	390
Thiocyanates (rhodanates),		
mono-, .....	—SCN	401
poly-, .....	(—SCN) <sub>n</sub>	402
Isothiocyanates, mono-, .....	—NCS	411
poly-, .....	(—NCS) <sub>n</sub>	412

Heterocyclic CHNS Compounds:—

More than 6 members in ring .....	430
-----------------------------------	-----

6 Members in ring

Thiazines .....	C <sub>4</sub> NS	440
Dithiazines .....	C <sub>4</sub> NS <sub>2</sub>	441
Trithiazines .....	C <sub>4</sub> NS <sub>3</sub>	442
Tetrathiazines .....	CNS <sub>4</sub>	443
Thiadiazines .....	C <sub>3</sub> N <sub>2</sub> S	444
Dithiadiazines .....	C <sub>3</sub> N <sub>2</sub> S <sub>2</sub>	445
Trithiadiazines .....	CN <sub>2</sub> S <sub>3</sub>	446
Thiatriazines .....	C <sub>2</sub> N <sub>3</sub> S	447
Dithiatriazines .....	CN <sub>2</sub> S <sub>2</sub>	448
Thiatetrazines .....	CN <sub>3</sub> S	449

5 Members in ring

Thiazoles .....	C <sub>4</sub> NS	460
Dithiazoles .....	C <sub>4</sub> NS <sub>2</sub>	461

Trithiazoles .....	CNS <sub>1</sub> .....	462
Thiadiazoles .....	CNS <sub>2</sub> .....	463
Dithiadiazoles .....	CNS <sub>3</sub> .....	464
Thiatriazoles .....	CNS <sub>4</sub> .....	465

 $(CH)_N X$ 

<b>Aschaloamides</b> .....	<b>XN:C(NH<sub>2</sub>)N:NC(NH<sub>2</sub>):NX</b> ..	<b>472</b>
<b>Bromoamines</b> .....	<b>—NHBr</b> .....	<b>475</b>
<b>Chloroamines</b> .....	<b>—NHCl</b> .....	<b>477</b>
<b>Fluoroamines</b> .....	<b>—NHF</b> .....	<b>479</b>
<b>Iodoamines</b> .....	<b>—NHI</b> .....	<b>481</b>
<b>Haloamines</b> .....	<b>—NHX</b> .....	<b>483</b>
<b>Bromochloroamines</b> .....	<b>—NBrCl</b> .....	<b>485</b>
<b>Bromofluoroamines</b> .....	<b>—NBrF</b> .....	<b>486</b>
<b>Bromiodoamines</b> .....	<b>—NBrI</b> .....	<b>487</b>
<b>Chlorofluoroamines</b> .....	<b>—NCIF</b> .....	<b>488</b>
<b>Chloriodoamines</b> .....	<b>—NCII</b> .....	<b>489</b>
<b>Fluoriodoamines</b> .....	<b>—NFI</b> .....	<b>490</b>
<b>Halogen imines</b> .....	<b>=NX</b> .....	<b>494</b>

 $(CH)SX$ 

Sulfur bromides .....	—SBr .....	520
Sulfur chlorides .....	—SCl .....	521
Sulfur fluorides .....	—SF .....	522
Sulfur iodides .....	—SI .....	523
Sulfur halides .....	—SX .....	524

 $(CH)O$ 

Carboxylic acids, free, mono-,	.....—COOH(M)	541
di-,	.....(—COOH) <sub>2</sub>	542
tri-,	.....(—COOH) <sub>3</sub>	543
	.....(—COOH) <sub>n</sub>	544
Carboxylic esters, mono-,	.....—COOR	551
di-,	.....(—COOR) <sub>2</sub>	552
tri-,	.....(—COOR) <sub>3</sub>	553
	.....(—COOR) <sub>n</sub>	554
Aldehydes, mono-,	.....—CHO	561
di-,	.....(—CHO) <sub>2</sub>	562
tri-,	.....(—CHO) <sub>3</sub>	563
	.....(—CHO) <sub>n</sub>	564
Ketones, mono-,	.....—CO—	571
di-,	.....(—CO—) <sub>2</sub>	572
tri-,	.....(—CO—) <sub>3</sub>	573
	.....(—CO—) <sub>n</sub>	574
Hydroxy compounds, mono-,	.....—OH	581
di-,	.....(—OH) <sub>2</sub>	582
tri-,	.....(—OH) <sub>3</sub>	583
	.....(—OH) <sub>n</sub>	584
Phenates	.....—OM	588
Ethers, mono-,	.....—O—	591
di-,	.....(—O—) <sub>2</sub>	592
tri-,	.....(—O—) <sub>3</sub>	593
	.....(—O—) <sub>n</sub>	594
Peroxides (organic only)		596

*Heterocyclic CHO Compounds:—*

More than 6 members in ring.....	610
6 Members in ring	
Monoxane (pyran) .....C <sub>5</sub> O .....	620
Dioxanes .....C <sub>4</sub> O <sub>2</sub> .....	621
Trioxanes .....C <sub>3</sub> O <sub>3</sub> .....	622
5 Members in ring	
Furan .....C <sub>4</sub> O .....	625
Dioxolanes .....C <sub>3</sub> O <sub>2</sub> .....	626
4 Members in ring	
Oxetane (trimethylene oxide; propylene oxide) .....C <sub>3</sub> O .....	630
3 Members in ring	
Oxirane (ethylene oxide) .....C <sub>2</sub> O .....	632
Heterocyclic compounds containing a heteroatom in addition to O (P, B, As, etc.) in ring .....COZ .....	640

*(CH)N*

Diazoamino compounds (triazines)..HN:NNH <sub>2</sub> .....	650
Hydrazines .....H <sub>2</sub> NNH <sub>2</sub> .....	657
Hydrazones .....=NNH <sub>2</sub> .....	659
Azo, diazo compounds .....—N:N— .....	665
Biguanides .....H <sub>2</sub> NC(:NH)NHC(:NH)NH <sub>2</sub> ..	667
Guanidines .....H <sub>2</sub> NH(:NH)NH <sub>2</sub> .....	668
Cyanamides .....=NCN .....	670
Amines, primary, mono-, .....—NH <sub>2</sub> .....	671
di-, .....(—NH <sub>2</sub> ) <sub>2</sub> .....	672
tri-, .....(—NH <sub>2</sub> ) <sub>3</sub> .....	673
.....(—NH <sub>2</sub> ) <sub>n</sub> .....	674
Amines, secondary, mono-, .....—NH— .....	681
di-, .....(—NH—) <sub>2</sub> .....	682
tri-, .....(—NH—) <sub>3</sub> .....	683
.....(—NH—) <sub>n</sub> .....	684
Amines, tertiary, mono-, .....—N= .....	691
di-, .....(—N=) <sub>2</sub> .....	692
tri-, .....(—N=) <sub>3</sub> .....	693
.....(—N=) <sub>n</sub> .....	694
Quaternary ammonium compounds..N .....	696
Imines .....=NH .....	700
Nitriles (cyanides), mono-, .....—CN .....	701
di-, .....(—CN) <sub>2</sub> .....	702
tri-, .....(—CN) <sub>3</sub> .....	703
.....(—CN) <sub>n</sub> .....	704
Isonitriles (isocyanides), mono-, ...—NC .....	711
di-, .....(—NC) <sub>2</sub> .....	712
tri-, .....(—NC) <sub>3</sub> .....	713
.....(—NC) <sub>n</sub> .....	714

*Heterocyclic CHN Compounds:—*

More than 6 members in ring.....	720
6 Members in ring	
Monazines (pyridine; piperidine)..C <sub>5</sub> N .....	730
Diazines .....C <sub>4</sub> N <sub>2</sub> .....	732

Triazines .....	$C_3N_3$ .....	733
Tetrazines .....	$C_2N_4$ .....	734
Pentazines .....	$CN_5$ .....	735
5 Members in ring		
Azoles (pyrroles; pyrrolidine) ....	$C_4N$ .....	740
Diazoles .....	$C_3N_2$ .....	742
Triazoles .....	$C_2N_3$ .....	743
Tetrazoles .....	$CN_4$ .....	744
4 Members in ring		
Azetidine .....	$C_3N$ .....	746
Uretidine .....	$C_2N_2$ .....	747
3 Members in ring		
Asiridine .....	$C_2N$ .....	750
Heterocyclic compounds containing a heteroatom in addition to N (P, B, As, etc.) in ring.....		
	$CNZ$ .....	760

 $(CH)_8$ 

Thiocarbonates .....	HSC(:S)SH	770
Carbithionates .....	-CSSH	774
Sulfides (thioethers) .....	-S-	781
Disulfides .....	-SS-	782
Polysulfides .....	-S <sub>n</sub> -	783
Thiols (mercaptans), mono-.....	-SH	791
di-, .....	(-SH) <sub>2</sub>	792
tri-, .....	(-SH) <sub>3</sub>	793
.....	(-SH) <sub>n</sub>	794
Thioketones .....	-CS-	796
Sulfurized compounds .....		800
Sulfonium compounds .....		801

### Heterocyclic CHS Compounds:—

More than 6 members in ring.....	810
6 Members in ring	
Thiapyran .....C <sub>5</sub> S .....	820
Dithianes .....C <sub>4</sub> S <sub>2</sub> .....	821
Trithianes .....C <sub>3</sub> S <sub>3</sub> .....	822
5 Members in ring	
Thiophene .....C <sub>4</sub> S .....	825
Dithioles .....C <sub>3</sub> S <sub>2</sub> .....	826
4 Members in ring	
Thiethane .....C <sub>3</sub> S .....	830
3 Members in ring	
Thiirane .....C <sub>2</sub> S .....	834
Heterocyclic compounds containing a heteroatom in addition to S (P, B, As, etc.).....CSZ	839

 $(CH)X$ 

Bromides (organic only), mono-, ...—Br .....	841
di-, .....(—Br) <sub>2</sub> .....	842
tri-, .....(—Br) <sub>3</sub> .....	843
tetra-, .....(—Br) <sub>4</sub> .....	844
penta-, .....(—Br) <sub>5</sub> .....	845
hexa-, .....(—Br) <sub>6</sub> .....	846
.....(—Br) <sub>n</sub> .....	847

Chlorides (organic only), mono-, ...—Cl .....	851
di-, .....(—Cl) <sub>2</sub> .....	852
tri-, .....(—Cl) <sub>3</sub> .....	853
tetra-, .....(—Cl) <sub>4</sub> .....	854
penta-, .....(—Cl) <sub>5</sub> .....	855
hexa-, .....(—Cl) <sub>6</sub> .....	856
.....(—Cl) <sub>n</sub> .....	857
Fluorides (organic only), mono-, ...—F .....	861
di-, .....(—F) <sub>2</sub> .....	862
tri-, .....(—F) <sub>3</sub> .....	863
tetra-, .....(—F) <sub>4</sub> .....	864
penta-, .....(—F) <sub>5</sub> .....	865
hexa-, .....(—F) <sub>6</sub> .....	866
.....(—F) <sub>n</sub> .....	867
Iodides (organic only), mono-, .....—I .....	871
di-, .....(—I) <sub>2</sub> .....	872
tri-, .....(—I) <sub>3</sub> .....	873
tetra-, .....(—I) <sub>4</sub> .....	874
penta-, .....(—I) <sub>5</sub> .....	875
hexa-, .....(—I) <sub>6</sub> .....	876
.....(—I) <sub>n</sub> .....	877
Halides (organic only), mono-, .....—X .....	881
di-, .....(—X) <sub>2</sub> .....	882
tri-, .....(—X) <sub>3</sub> .....	883
tetra-, .....(—X) <sub>4</sub> .....	884
penta-, .....(—X) <sub>5</sub> .....	885
hexa-, .....(—X) <sub>6</sub> .....	886
.....(—X) <sub>n</sub> .....	887
Halides, mixed (organic only) (iodochlorides, etc.) .....—ICl <sub>2</sub> ; =II, etc. ....	890

## (CH)Z

Heterocyclic compounds containing a heteroatom other than O, N or S in ring.....	895
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## CH

*Cyclic Structures-Condensed Rings:—*

More than 4 condensed rings.....	900
4 condensed rings	
One or more rings containing 7 or more members.....	901
6 + 6 + 6 + 6 Membered.....	902
(Benzantracene, benzophenanthrene, chrysene, naphthacene, pyrene, triphenylene, etc.)	
5 + 6 + 6 + 6 Membered.....	904
(Aceanthrene, benzacenaphthene, benzofluorene, chrysofluorene, cyclopentantracene, cyclopentaphenanthrene, etc.)	
5 + 5 + 6 + 6 Membered.....	906
(Cyclopentafluorene, etc.)	
All other systems containing 4 condensed rings.....	908
3 condensed rings	
One or more rings containing 7 or more members.....	909
6 + 6 + 6 Membered.....	910
(Adamantene, anthracene, benzonaphthene, 1,4-ethanaphthalene, phenanthrene, etc.)	

5 + 6 + 6 Membered.....	912
(Acenaphthene, acenaphthylene, benzidine, fluorene, etc.)	
5 + 5 + 6 Membered.....	914
5 + 5 + 5 Membered.....	916
All other systems containing 3 condensed rings.....	920
<b>2 ring systems</b>	
One or more rings containing 7 or more members.....	921
6 + 6 Membered.....	924
(Naphthalene, etc.)	
5 + 6 Membered.....	928
(Indan, indene, isoindene, etc.)	
5 + 5 Membered.....	930
(Norcamphane, etc.)	
4 + 6 Membered.....	932
(Pinene, etc.)	
All other systems containing 2 condensed rings.....	938

*Cyclic Structures—Single Rings:—*

More than 6 membered.....	940
<b>6 Membered</b>	
Benzene (fused to another cyclic structure; benz-).....	950
Benzene (phenyl), mono-,.....—C <sub>6</sub> H <sub>5</sub> .....	951
di-, .....(—C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> .....	952
tri-, .....(—C <sub>6</sub> H <sub>3</sub> ) <sub>3</sub> .....	953
tetra-, .....(—C <sub>6</sub> H <sub>2</sub> ) <sub>4</sub> .....	954
.....(—C <sub>6</sub> H <sub>2</sub> ) <sub>n</sub> .....	955
Cyclohexadiene.....	956
Cyclohexene.....	957
Cyclohexane, mono-, .....—C <sub>6</sub> H <sub>11</sub> .....	961
di-, .....(—C <sub>6</sub> H <sub>10</sub> ) <sub>2</sub> .....	962
tri-, .....(—C <sub>6</sub> H <sub>9</sub> ) <sub>3</sub> .....	963
.....(—C <sub>6</sub> H <sub>9</sub> ) <sub>n</sub> .....	964
<b>5 Membered</b> .....	968
(Cyclopentadiene, cyclopentene, cyclopentane, etc.)	
<b>4 Membered</b> .....	970
(Cyclobutane, etc.)	
<b>3 Membered</b> .....	972
(Cyclopropane, etc.)	
Aryl (unspecified).....	975

*Non-Cyclic Structures:—*

C <sub>n</sub> (n = more than 20).....	980
C <sub>20</sub> .....	981
C <sub>19</sub> .....	982
C <sub>18</sub> .....	983
C <sub>17</sub> .....	984
C <sub>16</sub> .....	985
C <sub>15</sub> .....	986
C <sub>14</sub> .....	987
C <sub>13</sub> .....	988
C <sub>12</sub> .....	989
C <sub>11</sub> .....	990
C <sub>10</sub> .....	991
C <sub>9</sub> .....	992
C <sub>8</sub> mono-,.....	993

C <sub>n</sub> poly-, .....	994
C <sub>n</sub> mono-, .....	995
C <sub>n</sub> poly-, .....	996
C <sub>n</sub> mono-, .....	997
C <sub>n</sub> poly-, .....	998
C <sub>n</sub> mono-, .....	999
C <sub>n</sub> poly-, .....	1000
C <sub>n</sub> mono-, .....	1001
C <sub>n</sub> poly-, .....	1002
C <sub>n</sub> mono-, .....	1003
C <sub>n</sub> poly-, .....	1004
C <sub>n</sub> mono-, .....	1011
C <sub>n</sub> di-, .....	1012
C <sub>n</sub> tri-, .....	1013
C <sub>n</sub> tetra-, .....	1014
C <sub>n</sub> poly-, .....	1015
C <sub>n</sub> mono-, .....	1021
C <sub>n</sub> di-, .....	1022
C <sub>n</sub> tri-, .....	1023
C <sub>n</sub> tetra-, .....	1024
C <sub>n</sub> poly-, .....	1025
Alkyl (unspecified) .....	1027

*Degree of unsaturation (aliphatic only):—*

One double bond .....	1030
Two double bonds	
Adjacent .....	1031
Conjugated .....	1032
Separate .....	1033
Three double bonds	
Conjugated .....	1035
Other .....	1036
Four double bonds	
Conjugated .....	1037
Other .....	1038
More than four double bonds.....	1039
Triple bonds—single .....	1040
Triple bonds—multiple .....	1041
R (unspecified) .....	1045

*Cations:—*

Aluminum .....	Al	1106
Ammonia .....	NH <sub>3</sub>	1108
Ammonium .....	NH <sub>4</sub>	1109
Antimony .....	Sb	
Ionic .....		1110
Organic .....		1111
Arsenic .....	As	
Ionic .....		1112
Organic .....		1113
Barium .....	Ba	1114
Beryllium .....	Be	1116
Bismuth .....	Bi	
Ionic .....		1118
Organic .....		1119
Boron .....	B	1120
Cadmium .....	Cd	1124

Calcium .....	Ca	1128
Carbon, inorganic .....		1128
Cerium .....	Ce	1130
Cesium .....	Cs	1132
Chromium .....	Cr	1136
Cobalt .....	Co	1138
Copper .....	Cu	1142
Germanium .....	Ge	1148
Gold .....	Au	1150
Iron .....	Fe	1162
Lanthanum .....		1164
Lead .....	Pb	
Ionic .....		1166
Organic .....		1167
Lithium .....	Li	1168
Magnesium .....	Mg	1172
Manganese .....	Mn	1174
Mercury .....	Hg	
Ionic .....		1176
Organic .....		1177
Molybdenum .....	Mo	1178
Neodymium .....		1180
Nickel .....	Ni	1182
Nitrogen .....	N	1184
Phosphorus .....	P	
Ionic .....		1192
Organic (phosphonium, etc.) .....		1193
Potassium .....	K	1196
Praseodymium .....		1198
Rubidium .....	Rb	1206
Selenium .....	Se	
Ionic .....		1212
Organic .....		1213
Silicon .....	Si	
Ionic .....		1214
Organic .....		1215
Silver .....	Ag	1216
Sodium .....	Na	1218
Strontium .....	Sr	1220
Sulfur, inorganic .....	S	1222
Tellurium .....	Te	
Ionic .....		1226
Organic .....		1227
Thallium .....	Tl	1228
Thorium .....		1230
Tin .....	Sn	
Ionic .....		1234
Organic .....		1235
Titanium .....	Ti	1236
Tungsten .....	W	1238
Uranium .....	U	1240
Vanadium .....	V	1242
Yttrium .....		1243
Zinc .....	Zn	1244
Zirconium .....		1245
Unspecified metal .....		1246



*Anions:—*

Aluminate .....	$-\text{AlO}_2$	1250
Antimonate .....	$-\text{SbO}_2$	1252
Arsenate, ortho-, .....	$\equiv\text{AsO}_4$	1254
Arsenate, meta-, .....	$-\text{AsO}_2$	1255
Arsenate, pyro-, .....	$\equiv\text{As}_2\text{O}_7$	1256
Arsenide .....	$\equiv\text{As}$	1258
Arsenite, ortho-, .....	$\equiv\text{AsO}_3$	1260
Arsenite, meta-, .....	$-\text{AsO}_2$	1261
Azide .....	$-(\text{N}_3)$	1264
Bismuthate .....	$-\text{BiO}_2$	1268
Borate .....	$\equiv\text{BO}_3$	1270
Borate, tetra-, .....	$=\text{B}_4\text{O}_7$	1271
Boride .....	$-(\text{B}_2)$	1272
Bromate .....	$-\text{BrO}_2$	1274
Bromide, inorganic, .....	$-\text{Br}$	1276
Bromoselenate .....	$=\text{SeBr}_6$	1278
Carbide .....	$\equiv\text{C}$	1284
Carbonate .....	$=\text{CO}_3$	1286
Chlorate .....	$-\text{ClO}_2$	1288
Chlorate, per-, .....	$-\text{ClO}_4$	1289
Chloride, inorganic, .....	$-\text{Cl}$	1291
Chlorite .....	$-\text{ClO}_2$	1293
Chlorite, hypo-, .....	$-\text{ClO}$	1294
Chromate .....	$=\text{CrO}_4$	1296
Chromate, di-, .....	$=\text{Cr}_2\text{O}_7$	1297
Chromate, per-, .....	$\equiv\text{CrO}_5$	1298
Cobaltcyanide .....	$\equiv\text{Co}(\text{CN})_6$	1300
Cyanate, inorganic, .....	$-\text{OCN}$	1301
Cyanate, iso-, inorganic, .....	$-\text{NCO}$	1302
Cyanide, inorganic, .....	$-\text{CN}$	1303
Cyanide, iso-, inorganic, .....	$-\text{NC}$	1304
Cyanamide, inorganic, .....		1305
Dithionate .....	$=\text{S}_2\text{O}_6$	1306
Ferricyanide .....	$\equiv\text{Fe}(\text{CN})_6$	1308
Ferrocyanide .....	$\equiv\text{Fe}(\text{CN})_6$	1309
Fluoroaluminate .....		1310
Fluoborate (Borofluoride) .....	$-\text{BF}_4$	1311
Fluoride, inorganic, .....	$-\text{F}$	1312
Fluosilicate (Silicofluoride) .....	$=\text{SiF}_6$	1313
Fluosulfonic acid .....		1314
Fluotitanate (Titanofluoride) .....	$=\text{TiF}_6$	1315
Fluozirconate .....	$=\text{ZrF}_6$	1317
Halide, unspecified inorganic, .....		1321
Hydroxide .....	$-\text{OH}$	1325
Iodate .....	$-\text{IO}_2$	1330
Iodate, per-, .....	$-\text{IO}_4$	1331
Iodide, inorganic, .....	$-\text{I}$	1333
Manganate .....	$=\text{MnO}_4$	1337
Manganate, per-, .....	$-\text{MnO}_4$	1338
Molybdate .....	$=\text{MoO}_4$	1340
Nitrate .....	$-\text{NO}_3$	1341
Nitride, inorganic, .....	$\equiv\text{N}$	1342
Nitrite .....	$-\text{NO}_2$	1343
Nitroprusside .....	$=\text{Fe}(\text{CN})_5\text{NO}$	1345
Oxide, inorganic, .....	$=\text{O}$	1350

Peroxide .....	$\text{—O—O—}$	1351
Phosphate, ortho-, .....	$\text{—PO}_4$	1356
Phosphate, meta-, .....	$\text{—PO}_3$	1357
Phosphate, pyro-, .....	$\text{—P}_2\text{O}_7$	1358
Phosphate, hypo-, .....	$\text{—PO}_2$	1360
Phosphide .....	$\text{—P—P—}$	1362
Phosphite .....	$\text{—PO}_3$	1364
Phosphite, hypo-, .....	$\text{—PO}_2$	1365
Phosphorylamide .....	$\text{—O}_2\text{P}(\text{NH}_2)_2$	1366
Phosphomolybdate .....		1367
Phosphotungstates .....		1368
Plumbate, ortho-, .....	$\text{—PbO}_4$	1369
Plumbate, meta-, .....	$\text{—PbO}_3$	1370
Selenate .....	$\text{—SeO}_4$	1376
Selenide .....	$\text{—Se—Se—}$	1378
Selenite .....	$\text{—SeO}_3$	1380
Silicate .....	$\text{—SiO}_4$	1384
Silicide .....	$\text{—Si—Si—}$	1386
Stannate .....	$\text{—SnO}_4$	1388
Sulfate .....	$\text{—SO}_4$	1389
Sulfate, per-, .....	$\text{—S}_2\text{O}_8$	1390
Sulfamate .....	$\text{—SO}_2\text{NH}_2$	1391
Sulfide, inorganic, .....	$\text{—S—S—}$	1392
Sulfite, .....	$\text{—SO}_3$	1393
Sulfite, hypo-, .....	$\text{—S}_2\text{O}_4$	1394
Sulfite, pyro-, (Metabisulfite) .....	$\text{—S}_2\text{O}_5$	1396
Tellurate .....	$\text{—TeO}_4$	1400
Telluride .....	$\text{—Te—Te—}$	1402
Tellurite .....	$\text{—TeO}_3$	1404
Thioantimonate .....	$\text{—SbS}_4$	1408
Thioarsenate .....	$\text{—AsS}_4$	1410
Thioarsenite .....	$\text{—AsS}_3$	1412
Thiocyanate, inorganic, .....	$\text{—SCN}$	1406
Thiocyanate, iso-, inorganic, .....	$\text{—NCS}$	1406
Thiophosphates .....		1413
Thionates, poly-, .....	$\text{—S}_2\text{O}_6$	1409
Thiosulfate .....	$\text{—S}_2\text{O}_3$	1414
Thiocarbonate .....	$\text{—CS}_3$	1415
Titanate, ortho-, .....	$\text{—TiO}_4$	1416
Titanate, meta-, .....	$\text{—TiO}_3$	1418
Tungstate .....	$\text{—WO}_4$	1420
Uranate .....	$\text{—UO}_4$	1426
Vanadate .....	$\text{—VO}_4$	1430
Zincate .....	$\text{—ZnO}_4$	1435
Zirconate .....	$\text{—ZrO}_4$	1440
Unspecified anion .....		1450

Reference to the code list shows that organic groups are selected first and inorganic last, this constituting the first subdivision. Compounds containing both organic and inorganic groups are then accommodated with numbers from both these large divisions.

*Organic compounds.*—For the purposes of this classification, organic groups are defined as those which contain carbon and hydrogen alone.

or in combination with one or more of the elements oxygen, nitrogen, sulfur, and the halogens.

The list of constituent organic groups is broken down into 16 divisions, based upon the number of elements present. The first division contains those constituent groups composed of all of the elements, C, H, O, N, S, and X (halogen) and each successive division includes groups of less complexity. The next four divisions thus contain the groups with five elements, (CH)ONS, (CH)ONX, (CH)OSX, and (CH)NSX. Following this are the groups with four elements, then three, and finally the hydrocarbon skeleton of the compound. This is further subdivided into carbocyclic and noncarbocyclic groups.

Parenthetically it should be noted that the presence of O, N, S, or X in the constituent group determines into which division the group falls, and is thus the criterion of the complexity of the group. The carbon atom may or may not occur in each group, and if present, acts solely as a "nucleus" from which depend the other elements; hydrogen may be present coincidentally to complete the valence requirements of one or more of the elements present.

Only the parent combinations are indicated. It is understood that substitutions may, and commonly are made at one or more points in the group. For example, carbazides may have organic radicals attached in place of one or more of the six hydrogen atoms present. Metallic elements may also replace hydrogen in acid groups.

*Subclassification.*—Under each division heading are listed the various constituent groups containing these elements. While in general the whole table is arranged in order of decreasing complexity, within each division it frequently happens that groups are arranged on the basis of chemical similarity rather than actual complexity. The first numbers in each division are assigned to the noncyclic combinations, followed by the heterocyclic structures containing the elements other than carbon characteristic of the division. Many code numbers have been left unassigned, and are available for new groups which may occur in the future use of the system.

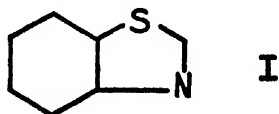
*Inorganic compounds.*—The inorganic groups are divided into those acting primarily as positive ions in water solution (cations) and those acting as negative ions (anions). Certain of the metallic elements combine with organic radicals in a carbon-to-metal linkage. Such combinations are given an "organic" code number to differentiate them from the "ionic" combinations found in inorganic salts and salts of organic acids.

*Specific instructions and conventions:—*

1) In considering a noncyclic combination of elements for classification, the largest group containing no more than isolated carbon atoms is considered as the unit. *These groups are chemical entities, and not necessarily functional groups.* It should be repeated that the largest

possible group is selected in each step of the breakdown. For example,  $-\text{CONH}_2$  is coded as amide, 185, rather than 571 and 671 both of which numbers appear later in the table than 185. Another example of this procedure is guanylurea  $=\text{NC}(:\text{NH})\text{NHCON}=\text{}$ , which is given the number 173, instead of being broken down into guanidine and amide. A careful examination of the groups listed in the table will make such decisions obvious. In groups not containing the carbon atom as an integral part thereof, the extent of the group is limited by its attachment to the carbon structure, such as  $-\text{SO}_2\text{NH}-$  in substituted sulfonamides.

2) In classifying heterocyclic structures, the monocyclic ring is the unit to be selected, regardless of size, and other rings fused or otherwise attached to the heterocyclic structure are considered separately. Examples of this are benzothiazole (I), which is coded as a 5-membered ring,  $\text{C}_6\text{NS}$  (460) and a 6-membered fused carbocyclic ring (950).

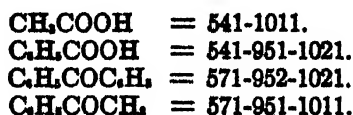


In complex heterocyclic compounds which have the heteroatom common to two or more rings, each ring is coded as though it were a separate entity, even though the common atom is considered twice. Rarely heterocyclic compounds containing an element other than O, N or S in the ring are encountered. These compounds (containing P, B, As, etc.) are grouped under numbers 640, 760, 839 or 895, depending upon the complexity of the ring.

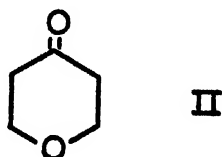
3) Noncyclic carbon chains are coded according to the total number of carbon atoms occurring together without interruption by some other element. Stated another way, the degree of branching does not affect the classification, isobutane having the same number as butane. Isolated carbon atoms occurring in a complex group are given the number of the  $\text{C}_1$  group. Thus urea is coded 183-1021.

4) It has already been mentioned that for certain classification purposes it is sometimes necessary to consider a single atom more than once. This "double coding" is done (in addition to the cases of the common heteroatom and urea mentioned above) in a number of other groups containing isolated carbon atoms. Probably the most common examples are the acid, aldehyde, and ketone groups. In these groups the carbon atom is coded as 1021 if attached only to cyclic structures, or is added to the balance of the acyclic carbon skeleton in noncyclic or mixed structures.

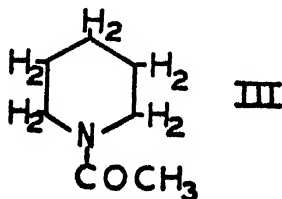
Thus we have:



When the carbon of a ketone group is an integral part of a cyclic structure, the ketone number (571) and the appropriate cyclic number are both assigned to the compound (II).



When a carbonyl group, for example, is attached to the heteroatom in a heterocyclic structure (III) a similar convention is followed:



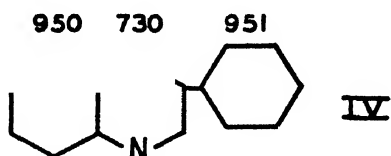
5) Quaternary ammonium compounds are coded under number 696. This number is restricted to completely substituted ammonium compounds. Thus  $\text{R-N}(\text{CH}_3)_3\text{Cl}$  is given the 696 number, while  $\text{R-NH}(\text{CH}_3)_2\text{Cl}$  is classed as an amine (681). Quaternary derivatives of N-heterocyclic compounds come under paragraph (4) above. Hydrochloride-, hydrosulfate-, and other amine and quaternary compounds are coded as inorganic chlorides, sulfates, etc., rather than as  $(\text{CH})\text{NX}$  or  $(\text{CH})\text{ONS}$  groups. The distinction is rather obvious in this case.

6) Provision is made (numbers 1030-1041) for the differentiation of saturated from unsaturated noncyclic compounds. With cyclic compounds of 6-members (cyclohexane, cyclohexadiene, and benzene) separate code numbers are assigned. Compounds like the quinones consisting of a six-membered ring with two double bonds in the ring by virtue of an attachment to an element outside the ring are considered to be benzene derivatives, rather than cyclohexadiene. In all other cyclic compounds, no distinction is made on the basis of saturation: thus pyridine and piperidine are both coded as 730, pyrrole and pyrrolidine as 740.

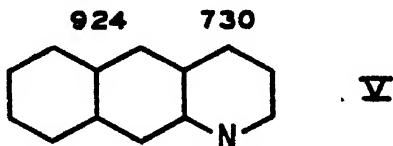
7) In several cases of the more commonly occurring groups provision is made for coding two, three, or more groups of the same kind. Triphenylbenzene, for example, is coded simply as 954. This procedure effects a more orderly arrangement of related compounds in the final classification. In these cases, the last member of each series is given the subscript *n*. This indicates either (a) a number of groups greater than the last preceding entry, or (b) an unspecified number of groups. Thus a compound containing three nitro groups is given number 208, while compounds containing four or more, or an unspecified number of nitro groups, is given number 209.

8) Organic radicals attached to multivalent inorganic ions are coded as single units, regardless of the valence of the inorganic ion. Calcium acetate,  $(\text{CH}_3\text{COO})_2\text{Ca}$ , is coded as 541-1011-1126. It should be noted that this applies only to inorganic ions, and that distinction is made between organic acids combined with metallic elements (541) and esters (551): similarly alcohols (581) and alcoholates (phenates, 588). Compounds with non-ionic inorganic atoms are coded according to the number of organic radicals present: for example, triphenyl phosphine  $(\text{C}_6\text{H}_5)_3\text{P}$  is coded 953-1193.

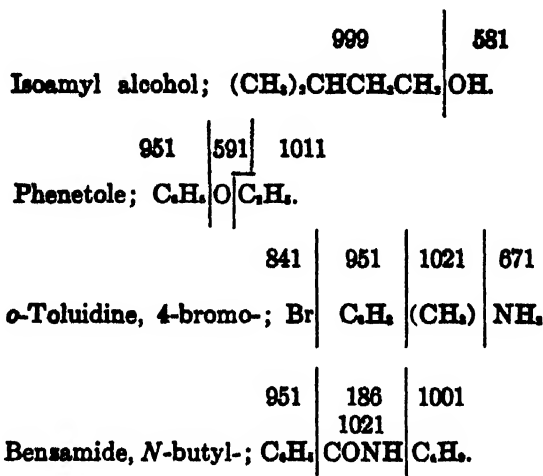
9) A distinction is made between benzene rings attached at one carbon atom (phenyl-, 951) and those fused to another cyclic structure at more than one carbon atom (benz-, 950). The compound given below (IV) is coded as shown.



The product of the fusion of a multiple carbocyclic system, such as naphthalene, to a heterocyclic ring is coded with the number of the carbocyclic structure to indicate the presence of this unit (V):



**Examples of coding.**—Below are given a few examples of coding. The constituent groups are separated by lines in order to make the process more easily understood.



(Note that the amide group is coded with both 186 and 1021).



**Catalogue listings.**—The compounds listed in this catalogue are arranged in order of their code numbers. This results in placing together all compounds with code numbers beginning with the same constituent groups. Compounds having the same first constituent numbers are then arranged in order of their second number, etc. In locating a given compound in the catalogue, probably the easiest way is to code the compound required, and then look under that code number in the catalogue. For example, if one desires to find acetic acid, it is coded as 541-1011, and this code number is located in its proper numerical sequence. In many cases it will not be necessary to work out the complete code number for a complex compound. For example, it is relatively easy to determine by inspection which constituent group takes precedence, and to locate the compound under the proper numerical heading. *For the convenience of readers who prefer to locate compounds by name, a complete alphabetical index of all compounds is given at the end of this volume.*

**Abbreviations, References, etc.**—In order to conserve space, abbreviations have been used rather freely in the preparation of this catalogue. The information for each compound is given in the following order: name (according to the Chemical Abstracts system), formula, synonyms, organisms against which the compound has been tested, with results, and finally, reference numbers.

The abbreviations used throughout this catalogue are as follows, in order of their appearance: (1) CU = constitution unspecified. This is used to indicate that the name of the compound as given was not sufficiently specific to establish the exact configuration. In cases where there was considerable question concerning the identity of the compound, or when it was impossible to assign even an empirical formula, the compound was placed in the miscellaneous group at the end of the section. (2) In stating the results of the toxicity tests, ST, MT, HT and NT indicate slight toxicity (10-30%), medium toxicity (30-80%), high toxicity (above 80%), and no toxicity (below 10%), respectively. Where the authors gave no indication of the degree of toxicity, T (toxic) has been used. The concentrations of chemicals tested have been given where known; thus "HT *Sclerotinia* at 1%" indicates that the compound when tested at 1 per cent concentration was highly toxic to *Sclerotinia*.

The reference numbers refer to the alphabetical list of references given at the end of each volume. To avoid confusion, each reference has been given a separate number. However, only those references cited in this volume are listed at the end of the volume. The letter P following a reference number indicates a patent. For convenience, the patents are listed separately by countries, and by numerical order, as well as alphabetically by patentees. *An alphabetical index of all compounds appearing in both volumes is given at the end of this volume.*







# **CHEMICAL FUNGICIDES**



# CHEMICAL FUNGICIDES

- 3-951-1031.  
p-Toluenesulfonamide, *N,N*-dichloro-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCl}_2$ . (*N*-Dichloro-*p*-toluenesulfonyl amide; dichloramine T).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 3-951-1021-1172.  
p-Toluenesulfonamide, *N*-chloro-, magnesium salt;  $[\text{CH}_3\text{C}_6\text{H}_4\text{S}(\text{NCl})\text{O}]_2\text{Mg}$ . (*p*-Toluenesulfonechlorimide, magnesium salt.)  
T as dust for potatoes. 185P, 1178.
- 3-951-1021-1218.  
p-Toluenesulfonamide, *N*-chloro-, sodium salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NClNa}$ . (Chloramine T).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
9.  
Sulphonamides, halogenated.  
T potato scab. 185P, 1178.
- 56-186-671-951-1011.  
Sulfanilamide, *N*-acetyl-;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHCOCH}_3$ . (*p*-Amino benzene sulfonyl acetyl imide).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 56-460-671-950.  
Saccharin;  $\text{C}_7\text{H}_5\text{NO}_6\text{S}$ . (*o*-Sulfobenzole imide; 3(2)-benzoesulfonolone).  
ST mold fung. 476.
- 56-460-671-951.  
Sulfathiazole;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_4\text{NS}$ . (Benzene-sulfonamide, *p*-amino-*N*-2-thiazolyl-).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 289.
- 56-671-730-950-951-1291.  
Acridine, 3-amino-6-benzenesulfonamido-, hydrochloride;  $\text{H}_2\text{NC}_6\text{H}_4\text{N}(\text{HCl})\text{NH}_2\text{SO}_2\text{C}_6\text{H}_4$ . (3-Benzene-sulfonamino-6-aminoacridine HCl). 354P.
- 56-671-730-951.  
Sulfapyridine;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHC}_5\text{H}_4\text{N}$ . (Benzene-sulfonamide, *p*-amino-*N*-2-pyridyl-).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 56-671-951.  
Sulfanilamide;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (*p*-Aminobenzene-sulfonamide).  
T *Sclerotinia sclerotiorum* at 1-1,000; MT *Macrosporium sarcinaeforme*. 289, 717, 728.
- 56-951-1021.  
o-Toluenesulfonamide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (*o*-Toluene sulfonyl amide).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 1344P.
- 56-951-1021.  
p-Toluenesulfonamide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$ . 1344P.
- 56-952-1021.  
p-Toluenesulphonanilide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ .  
ST mold fungi at 0.1%. 476.
- 56-975.  
Sulfonamides, aryl-.  
Soil or plant treatments for rust diseases. 389P, 1432.
- 60-551-851-951-1218.  
Hydrazine, 1-(3-chloro-4-hydroxyphenyl)-2-sulfo-, sodium salt;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3\text{NHNH}_2\text{SO}_2\text{Na}$ . (Na 3-chloro-4-hydroxyphenylhydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-551-851-951-1218.  
Hydrazine, 1-(2-chloro-4-hydroxyphenyl)-2-sulfo-, sodium salt;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3\text{NHNH}_2\text{SO}_2\text{Na}$ . (Na 4-hydroxy-2-chlorophenylhydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-551-851-1003-1021-1218.  
Thymol, 6-(2-sulfohydrazino)-, sodium salt;  $\text{HO}(\text{CH}_3)(\text{C}_6\text{H}_4)\text{C}_6\text{H}_4\text{NHNH}_2\text{SO}_2\text{Na}$ . (Na thymol-4-hydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-551-951-1196.  
Hydrazine, 1-(*p*-hydroxyphenyl)-2-sulfo-, potassium salt;  $\text{HOC}_6\text{H}_4\text{NHNH}_2\text{SO}_2\text{K}$ . (K *p*-Hydroxyphenylhydrazine-sulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-551-952-1021-1218.  
Methane, [2-hydroxy-5-(2-sulfohydrazino)-phenyl]-phenyl-, sodium salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4(\text{OH})\text{NHNH}_2\text{SO}_2\text{Na}$ . (Na 2-hydroxydiphenylmethane-5-hydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 69-951-1011.  
Carbanilic acid, thiono-, ethyl ester;  $\text{C}_6\text{H}_5\text{NHC}(\text{S})\text{OC}_2\text{H}_5$ . (Phenylthiourethane; ethyl ester of phenyl thio carbanilic acid).  
MT mold fungi at 0.05%. 476.
- 151-951-1021.  
p-Toluenesulfonyl chloride;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{Cl}$ . (*p*-Toluene sulfone chloride).  
NT *Macrosporium sarcinaeforme*. 289.
- 173-1022-1389.  
Urea, guanyl-, sulfate;  $\text{H}_2\text{NC}(\text{NH})\text{NHCONH}_2\text{H}_4\text{SO}_4$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 183-951-1021.  
Urea, phenyl-;  $\text{C}_6\text{H}_5\text{NHCONH}_2$ .  
ST mold fungi at 0.4%. 476.
- 183-989-1021.  
Urea, dodecyl-;  $\text{H}_2\text{NCONHC}_{12}\text{H}_{25}$ . (Lauryl urea). 563P.
- 183-1021.  
Urea;  $\text{H}_2\text{NCONH}_2$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 184-551-952-1021.  
Hydrazine, 1-benzoyl-2-(*p*-hydroxyphenyl)-;  $\text{HOC}_6\text{H}_4\text{NHNHCOOC}_6\text{H}_5$ . (Benzoyl-*p*-hydroxyphenylhydrazine).  
Prevents mold, etc. on seeds. 346P.
- 184-551-952-1021.  
Hydrazine, 1-phenyl-2-salicyloyl-;  $\text{HOC}_6\text{H}_4\text{CONHNHC}_6\text{H}_5$ . (Salicylphenylhydrazide).  
MT mold fungi at 0.02-0.1%. 476.
- 185-551-951-1021.  
Salicylamide;  $\text{HOC}_6\text{H}_4\text{CONH}_2$ .  
MT mold fungi at 0.1%. 476.
- 185-951-953-1011-1023-1030.  
Oleamide, *N*-(2-dimethylaminoethyl)-;  $\text{CH}_3(\text{CH}_2)_7\text{CH}_2\text{CH}(\text{CH}_3)\text{CONH}(\text{CH}_2)_2\text{N}(\text{CH}_3)_2$ . (Dimethyl oleylamido ethylamine). 1178, 1414P.
- 185-951-1021.  
Benzamide;  $\text{C}_6\text{H}_5\text{CONH}_2$ .  
MT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 185-1011.  
Acetamide;  $\text{CH}_3\text{CONH}_2$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 185-1011-1177.  
Acetamide, mercury derivative. 786P.
- 185-1021.  
Formamide;  $\text{HCONH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 185-1045-1177.  
Amides, mercury derivatives. 786P.
- 186-189-1021-1045.  
Urethanes, *n*-acyl-;  $\text{R}'\text{CONHCOOR}$ .  
Also bactericide. 311P, 312P.
- 186-204-956-953-953-1011-1023-1301.  
Ammonium chloride, benzyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{NH}_4^+\text{Cl}^-$ . (3,4-dichlorobenzene-sulfonyl)-phenyl]-carbonylmethyl]-*N*,*N*-dimethyl-;

- $C_6H_5CH_2N(CH_2)_3(Cl)CH_2CONHC_6H_5O_2C_2H_5Cl_2$ .  
Also bactericide. 519P.
- 186-471-591-696-851-952-1012-1022-1291.  
Ammonium chloride, [p-(p-chlorophenoxyl)-phenyl-carbamylmethyl]-dimethyl- (3-thiocyanethyl)-;  $ClC_6H_4OC_6H_4NHCOCH_2N(CH_2)_3(Cl)CH_2CH_2SCN$ . 526P.
- 186-541-581-952-1022.  
m-Aminobenzoic acid, N-salicyloyl-;  $HOC_6H_4CONHC_6H_4COOH$  (Salicyl-m-aminobenzoic acid).  
NT mold fungi at 0.1%. 476.
- 186-541-582-952-1022.  
Salicylic acid, 5-amino-, N-salicyloyl-;  $HOC_6H_4CONHC_6H_4(OH)COOH$ .  
ST mold fungi at 0.1%. 476.
- 186-541-730-1022-1027.  
Chloromerconamide, N-alkyl-;  $HOOC_6H_4N(CONHR)$ . (Iso-quinolinic acid amide). 771AP.
- 186-541-730-1022-1027.  
Lutidinamide, N-alkyl-;  $HOOC_6H_4N(CONHR)$ . (Quinolinic acid amide). 771AP.
- 186-541-730-1022-1027.  
Quinolinamide, N-alkyl-;  $HOOC_6H_4N(CONHR)$ . (Quinolinic acid amide). 771AP.
- 186-541-951-1001.  
Oxalic acid;  $C_2H_2NHCOOOH$ .  
ST mold fungi at 0.3%. 476.
- 186-541-951-1011-1021-1142.  
Hippuric acid, copper salt;  $(C_6H_5CONHCH_2COO)_2Cu$ . (Copper hippurate).  
T spores of *Venturia inaequalis*. 905.
- 186-541-951-1011-1218.  
Oxalic acid, sodium salt;  $C_2H_2NHCOOONa$ .  
ST mold fungi at 0.3%. 476.
- 186-541-951-1012-1021-1177.  
p-Acetotoluene, 2-acetoxymethyl-;  $CH_3C_6H_4(NHCOCH_3)H_2OOCCH_3$ . (2-Acetoxymethyl-acet-p-toluidide).  
ST mold fungi at 0.01%. 476.
- 186-541-951-1012-1177.  
Acetanilide, o-acetoxymethyl-;  $CH_3CONHC_6H_4H_2OOCCH_3$ .  
MT mold fungi at 0.01% and ST at 0.005%. 476.
- 186-541-951-1012-1177.  
Acetanilide, p-acetoxymethyl-;  $CH_3CONHC_6H_4H_2OOCCH_3$ .  
HT mold fungi at 0.005%. 476.
- 186-542-730-1022-1027.  
Berberonamide, N-alkyl-;  $(HOOC)_2C_6H_4N(CONHR)$ . (Berberonic acid amide). 771AP.
- 186-551-691-990-1011-1021.  
Glycane, N-fluorohendecanoyl-, methyl ester;  $C_{10}H_{19}FCONHCH_2COOCH_3$ . (Monofluoroundecanic acid-methylglycamide).  
345P.
- 186-571-591-696-852-952-1012-1022-1291.  
Ammonium chloride, [p-(4-chlorophenoxyl)-phenyl]-carbamylmethyl- (2,5-dichlorophenacyl)-dimethyl-;  $ClC_6H_4COCH_2N(CH_2)_3(Cl)CH_2CONHC_6H_4OC_6H_4Cl$ .  
Also bactericide. 519P.
- 186-571-696-852-952-1011-1024-1291.  
Ammonium chloride, [p-(4-chlorobenzoyl)-phenyl-carbamylmethyl]- (p-chlorobenzyl)-dimethyl-;  $ClC_6H_4OC_6H_4NHCOCH_2N(CH_2)_3(Cl)CH_2C_6H_4Cl$ .  
Also bactericide. 519P.
- 186-571-696-954-1012-1025-1291.  
Benzophenone, 4,4'-bis[α-(benzylidimethyl-ammonium chloride)-acetamido]-;  $[C_6H_5CH_2N(CH_2)_3(Cl)CH_2CONHC_6H_4]_2CO$ . 519P.
- 186-571-851-951-1001.  
Acetoacetanilide, o-chloro-;  $CH_3COCH_2CONHC_6H_4Cl$ .  
NT *Macrosporium santhaeforme*; ST *Sclerotinia fructicola*. 229.
- 186-571-951-1001.  
Acetoacetanilide;  $C_6H_5NHCOCH_2COCH_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 229.
- 186-571-951-1001-1142.  
Acetoacetanilide, copper derivative.  
T *Macrosporium sarcinaeforme*. 717.
- 186-581-591-952-1022.  
Salicyl-o-anilide;  $HOC_6H_4CONHC_6H_4OCH_3$  (Salicyl-o-anilide).  
T mold fungi at 0.1%. 52P, 476.
- 186-581-591-952-1021.  
Salicylanilide, 4'-chloro-;  $HOC_6H_4CONHC_6H_4Cl$ . (Salicyl-p-chloroanilide).  
T mold fungi at 0.1%. 476.
- 186-581-591-952-1021.  
Salicylanilide, 5-chloro-;  $HO(Cl)C_6H_4CONHC_6H_5$ . 52P.
- 186-581-924-951-1021.  
Salicylanilide, N-1-naphthyl-;  $C_{10}H_7NHCOOC_6H_4OH$ . (Salicyl-α-naphthylamide).  
ST mold fungi at 0.1%. 476.
- 186-581-924-951-1021.  
Salicylanilide, N-2-naphthyl-;  $C_{10}H_7NHCOOC_6H_4OH$ . (Salicyl-β-naphthylamide).  
ST mold fungi at 0.1%. 476.
- 186-581-951-1011.  
Acetanilide, p-hydroxy-;  $HOC_6H_4NHCOCH_3$ .  
ST mold fungi at 0.5%. 476.
- 186-581-952-1021.  
Salicylanilide;  $HOC_6H_4CONHC_6H_5$ . ("Shrian"; o-hydroxybenzanilide).  
MT mold fungi at 0.005%. 52P, 476, 991.
- 186-581-952-1021.  
Benzanilide, 4-hydroxy-;  $HOC_6H_4CONHC_6H_5$ . (p-Hydroxybenzanilide).  
ST mold fungi at 0.1%. 476.
- 186-581-952-1022.  
Salicyl-o-toluide;  $CH_3C_6H_4NHCOOC_6H_4OH$ . (Salicyl-o-toluidide).  
ST cotton mildew fung. 52P, 476.
- 186-581-952-1022.  
Salicyl-p-toluide;  $CH_3C_6H_4NHCOOC_6H_4OH$ . (Salicyl-p-toluidide).  
MT mold fungi at 0.1%. 476.
- 186-581-952-1022.  
p-Cresotanilide;  $CH_3C_6H_4(OH)CONHC_6H_5$ . (p-Cresotanilide).  
ST mold fungi at 0.1%. 476.
- 186-582-952-1021.  
β-Resorcytanilide;  $C_6H_3(OH)_2CONHC_6H_5$ . 52P.
- 186-582-952-1022.  
m-Phenylenediamine, N,N'-disalicyloyl-;  $C_6H_4(NHCOC_6H_4OH)_2$ . (Disalicyl-m-phenylene-diamide).  
ST mold fungi at 0.1%. 476.
- 186-582-952-1022.  
p-Phenylenediamine, N,N'-disalicyloyl-;  $C_6H_4(NHCOC_6H_4OH)_2$ . (Disalicyl-p-phenylene-diamide).  
ST mold fungi at 0.1%. 476.
- 186-582-954-1022.  
4,4''-Bisalicylanilide;  $(HOC_6H_4CONHC_6H_5)_2$ . (Disalicylbisidide).  
ST mold fungi at 0.1%. 476.
- 186-588-952-1021-1218.  
Salicylanilide, sodium derivative;  $NaOC_6H_4CONHC_6H_5$ . ("Shrian S").  
HT mold fungi at 0.02% and MT at 0.005%;  
T several species wood-destroying fungi. 476, 655.
- 186-591-696-851-952-1011-1022-1291.  
Ammonium chloride, benzyl- [p-(p-chlorophenoxyl)-phenyl]-carbamylmethyl- (dimethyl)-;  $ClC_6H_4OC_6H_4NHCOCH_2N(CH_2)_3(Cl)CH_2C_6H_5$ . 519P.
- 186-591-696-852-952-1003-1022-1291.  
Ammonium chloride, 2-chlorobenzyl- [1-[p-(p-chlorophenoxyl)-phenyl]-carbamylethyl]-dimethyl-;  $ClC_6H_4CH_2N(CH_2)_3(Cl)CH(CH_2)CONHC_6H_4O-C_6H_4Cl$ .  
Also bactericide. 519P.
- 186-591-696-852-952-1011-1024-1291.  
Ammonium chloride, benzyl- [5-chloro-2-(p-chlorophenoxyl)-phenyl]-carbamylmethyl- (dimethyl)-;  $ClC_6H_4OC_6H_4(Cl)NHCOCH_2N(CH_2)_3(Cl)CH_2C_6H_5$ .  
Also bactericide. 519P.
- 186-591-696-852-952-1011-1024-1291.  
Ammonium chloride, benzyl- [5-chloro-2-(p-chlorophenoxyl)-phenyl]-carbamylmethyl- (dimethyl)-;  $ClC_6H_4CH_2N(CH_2)_3(Cl)CH(CH_2)CONHC_6H_4OC_6H_4(Cl)-CH_3$ .  
Also bactericide. 519P.
- 186-591-696-852-952-1011-1024-1291.  
Ammonium chloride, benzyl- [5-chloro-2-(4,6-dichloro-o-toloxyl)-phenyl]-carbamylmethyl- (dimethyl)-;  $Cl_2C_6H_3(Cl)OC_6H_4(Cl)NHCOCH_2N(CH_2)_3(Cl)CH_2C_6H_5$ .  
Also bactericide. 519P.

- 186-591-699-953-953-1011-1024-1291.  
Ammonium chloride, 3,4-dichlorobenzyl- $\{p-(4\text{-chloro-}m\text{-toloyl})\text{-phenyl}\}$ -carbamylmethyl- $\{dimethyl\}$ - $\{C_6H_4CH_2CH_2N(CH_3)_2\}$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_5$ - $\{Cl\}$ - $CH_3$ .  
Also bactericide. 519P.
- 186-591-951-1012.  
Phenacetin;  $CH_3CONHC_6H_4OC_6H_5$ . (Acetophenetidin; acet-phenetidine).  
NT *Macrosporium sarcinaeforme*. 289.
- 186-592-596-954-1011-1023-1291.  
Ammonium chloride, benzylidimethyl- $\{p-(p\text{-phenoxyphenoxy})\text{-phenylcarbamylmethyl}\}$ - $\{C_6H_4CH_2N(C_6H_5)_2\}$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4OC_6H_5$ .  
Also bactericide. 519P.
- 186-591-730-950-1011-1291.  
Acridine, 3-acetamido-6-amino-, hydrochloride;  $H_2NC_6H_3N_2(NHCOCH_3)HCl$ . (3-Acetyl-6-aminoacridine-HCl). 354P.
- 186-591-730-950-1021-1045.  
Acridine, monoacyldiamino-;  $H_2NC_6H_3N_2(NHCO-)$ . 354P.
- 186-591-951-1011.  
Acetanilide,  $p$ -amino-;  $CH_3CONHC_6H_4NH_2$ . (Monoacetyl- $p$ -phenylenediamine).  
MT *Macrosporium sarcinaeforme*; ST mold fungi at 0.3%; NT *Sclerotinia sclerotiorum* at 1,1,000. 289, 476, 717, 728.
- 186-591-983-1011.  
Stearamide,  $N$ -(2-aminoethyl)-, plus dyestuffs;  $C_{17}H_{35}CONHC_6H_4NH_2$ . 1178, 1414P.
- 186-591-983-1011-1030.  
Oleamide,  $N$ -(2-aminoethyl)-, plus dyestuffs;  $C_{17}H_{35}CONHC_6H_4NH_2$ . 1178, 1414P.
- 186-591-985-1003.  
Palmitamide,  $N$ -aminopropyl-, plus dyestuffs,  $C_{15}H_{31}CONHC_6H_4NH_2$ . 1178, 1414P.
- 186-592-701-951-989-1003-1011-1022-1291.  
Acetanilide, 3(?) -methylaminododecyl-4(?) - $\{2\text{-cyanoethyl}\}$ -methylaminododecyl-;  $CH_3CONHC_6H_4(C_{12}H_{25}NHCH_2)_2$ . 529P.
- 186-591-696-781-953-1012-1025-1291.  
Ammonium chloride, benzyl- $\{p-[p-(\alpha\text{-dimethylaminoacetamide})\text{-phenylthio}\text{-phenylcarbamylmethyl}\}\text{-dimethyl-}\{C_6H_4CH_2N(CH_3)_2\}$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4NHCOCH_2N(CH_3)_2$ .  
Also bactericide. 519P.
- 186-591-696-852-953-1015-1021-1291.  
Ammonium chloride, benzyl- $\{3,3'\text{-dichloro-4'-(}\alpha\text{-diethylaminoacetamido)-4-biphenylcarbamylmethyl}\}$ -diethyl- $\{C_6H_4CH_2N(CH_3)_2\}$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4NHCOCH_2N(CH_3)_2$ . 519P.
- 186-591-696-953-1012-1025-1291.  
Ammonium chloride, benzyl- $\{4'-(\alpha\text{-dimethylaminoacetamido})\text{-4-biphenylcarbamylmethyl}\}$ -dimethyl- $\{C_6H_4CH_2N(CH_3)_2\}$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4NHCOCH_2N(CH_3)_2$ . 519P.
- 186-591-983-1011-1022.  
Stearamide,  $N$ -(2-dimethylaminoethyl)-, plus dyestuffs;  $C_{17}H_{35}CONHC_6H_4N(CH_3)_2$ . 1178, 1414P.
- 186-591-983-1011-1022-1030.  
Oleamide,  $N$ -(2-dimethylaminoethyl)-, plus dyestuffs;  $C_{17}H_{35}CONHC_6H_4N(CH_3)_2$ . 1178, 1414P.
- 186-591-983-1013-1030.  
Oleamide,  $N$ -(3-diethylaminoethyl)-;  $C_{17}H_{35}CONHC_6H_4N(C_2H_5)_3$ . (Oleyldiethylaminoethylamide). 1333P.
- 186-591-983-1013-1033.  
Linoleamide,  $N$ -(2-diethylaminoethyl)-, plus dyestuffs;  $C_{17}H_{35}CONHC_6H_4N(C_2H_5)_3$ . 1178, 1414P.
- 186-596-701-953-987-1024-1291.  
Ammonium chloride,  $p$ -cyanobenzyl [dodecyl-(phenylcarbamyl)methyl]dimethyl-;  $C_6H_4NHCOCH(C_{12}H_{25})N(CH_3)_2$ - $\{Cl\}$ - $CH_2OC_6H_4CN$ . 529P.
- 186-596-740-950-984-1011-1024-1389.  
Ammonium methyl sulfate,  $\{2,3\text{-dihydro-2-hepta-decyl-1-indolyl}\}$ -carbonylmethyl-trimethyl-;  $C_{17}H_{35}(C_6H_4N)COCH_2N(CH_3)_3SO_4$ . 521P.
- 186-596-781-951-953-1011-1023-1291.  
Ammonium chloride, benzyl- $\{p-(3\text{-chlorophenylthio-phenylcarbamylmethyl})\}$ -dimethyl- $\{C_6H_4CH_2N(CH_3)_2\}$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4Cl$ .  
Also bactericide. 519P.
- 186-596-781-953-953-1011-1023-1291.  
Ammonium chloride, benzyl- $\{p-(3,4\text{-dichlorophenylthio})\text{-phenylcarbamylmethyl}\}$ -dimethyl-;  $C_6H_4CH_2N(CH_3)_2$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4Cl$ .  
Also bactericide. 519P.
- 186-596-854-952-1012-1022-1291.  
Ammonium chloride, bis (3,4-dichlorophenylcarbamylmethyl)-dimethyl-;  $ClC_6H_3NHCOC_6H_4N(CH_3)_2$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4Cl$ .  
Also bactericide. 1238P.
- 186-596-954-1012-1025-1291.  
 $m,m'$ -Bitolyl, 4,4'-bis[ $\alpha$ -(benzylidimethylammonium chloride)-acetamido];  $[C_6H_4CH_2N(CH_3)_2$ - $\{Cl\}$ - $CH_2CONHC_6H_4OC_6H_4Cl$ ]- $_2$ .  
Also bactericide. 519P.
- 186-730-950-1011.  
Quinoline, 5-acetamido-;  $CH_3CONHC_6H_4N$ . (5-Acetylaminoquinoline).  
ST mold fungi at 0.3%. 476.
- 186-730-950-1011.  
Quinoline, 8-acetamido-;  $CH_3CONHC_6H_4N$ . (8-Acetylaminoquinoline).  
HT mold fungi at 0.3% and MT at 0.1%. 476.
- 186-730-1011.  
Pyridine, 2-acetamido-;  $CH_3CONHC_6H_4N$ . (2-Acetylaminopyridine).  
ST mold fungi at 0.1-0.3%. 476.
- 186-730-1021-1027.  
Nicotinamide,  $N$ -alkyl-;  $RNHCOC_6H_4N$ . (Nicotinic acid amide). 771AP.
- 186-730-1021-1027.  
Isonicotinamide,  $N$ -alkyl-;  $RNHCOC_6H_4N$ . (Isonicotinic acid amide). 771AP.
- 186-730-1021-1027.  
Picolinamide,  $N$ -alkyl-;  $RNHCOC_6H_4N$ . (Picolinic acid amide). 771AP.
- 186-841-951-1011.  
Acetanilide,  $p$ -bromo-;  $BrC_6H_4NHCOCH_3$ .  
ST *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 186-851-951-1011.  
Acetanilide,  $p$ -chloro-;  $ClC_6H_4NHCOCH_3$ .  
MT mold fungi at 0.3%. 476.
- 186-851-989-1011.  
Acetamide,  $\alpha$ -chloro- $N$ -dodecyl-;  $C_{12}H_{25}NHCOCH_3$ . (Chloroacetyldodecylamine).  
Seed disinfectant. 892P.
- 186-924-1011.  
Acetamide,  $N$ -1-naphthyl-;  $C_{10}H_7NHCOCH_3$ . (Acet- $\alpha$ -naphthylamide).  
ST mold fungi at 0.3%. 476.
- 186-924-1011.  
Acetamide,  $N$ -2-naphthyl-;  $C_{10}H_7NHCOCH_3$ . (Acet- $\beta$ -naphthylamide).  
MT mold fungi at 0.05-0.3%. 476.
- 186-951-993.  
Caprylanilide;  $C_8H_7NHCOCH_3$ .  
ST mold fungi at 0.3%. 476.
- 186-951-1011.  
Acetanilide;  $C_6H_5NHCOCH_3$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 186-951-1011-1021.  
Acetamide,  $N$ -benzyl-;  $CH_3CONHC_6H_4CH_2$ .  
ST mold fungi at 0.1%. 476.
- 186-951-1011-1021.  
 $o$ -Acetotoluidide;  $CH_3C_6H_4NHCOCH_3$ . (Acetyl  $o$ -toluidine;  $o$ -methyl acetanilide).  
MT mold fungi at 0.3%; ST *Sclerotinia sclerotiorum* at 1-1,000. 476, 728.
- 186-951-1011-1021.  
 $p$ -Acetotoluidide;  $CH_3CONHC_6H_4CH_2$ . ( $p$ -Methyl acetanilide; acetyl  $p$ -toluidide).  
HT mold fungi at 0.3%; T *Sclerotinia sclerotiorum* at 1-1,000; ST mildew fungi on cotton goods. 476, 728.
- 186-951-1011-1111-1218.  
Phenylthiobis acid,  $p$ -acetamido-, sodium salt;  $CH_3CONHC_6H_4Sb(H)(O)ONa$ . ( $p$ -Acetylaminothiobis acid, sodium salt).  
ST mold fungi at 0.02%. 476.

- 186-951-1011-1112-1177.  
Phenylarsonic acids, 8-acetamido-, mercurised. 1346P.  
186-951-1013.  
Acetamide, *N,N'*-*m*-phenylenebis-;  $C_6H_5(NHCOCH_3)_2$  (Diacet-*m*-phenylenediamide).  
ST mold fungi at 0.3%. 476.  
186-952-1003-1030.  
Cinnamamide;  $C_6H_5NHCOCH_2CH=CH_2$ .  
ST mold fungi at 0.3%. 476.  
186-952-1008.  
Hydrocinnamamide;  $C_6H_5CH_2CH_2CONHCH_2CH_3$ .  
ST mold fungi at 0.3%. 476.  
186-952-1021.  
Benzamide;  $C_6H_5NHCOCH_3$ .  
ST mildew fungi in cotton goods. 476.  
187-258-996-1001-1022-1218.  
Sulfonacinnamide, *N,N'*-dimethyl-*N,N'*-diheptyl-, sodium salt;  $CH_3(C_6H_4)NCOCH_2CH(CH_2CH_2CH_2CH_2CH_2CH_3)CON-(C_6H_4)_2CH_3$  (Sodium bis(*N*-methyl-*N*-heptyl)sulfonacinnamide). 624P.  
187-551-896-740-950-990-1013-1022-1291.  
Ammonium chloride, (Carbethoxymethyl)dimethyl-[-(2,3-dihydro-2-hendecylindolyl)carbonylmethyl]-;  $C_{11}H_{23}(C_2H_5N)COCH_2N(CH_2)_2(Cl)CH_2COOC_2H_5$ . 530P.  
187-551-801-1001-1011-1022.  
Sarcosine, *N*-fluorobutyl-, methyl ester;  $FC_4H_9CON-(CH_2)_3CH_2COOCH_3$ ? (Monofluorobutyric acid methylsarcoside). 345P.  
187-551-952-1022.  
Salicylanilide, *N*-methyl-;  $HOC_6H_4CON(CH_3)C_6H_5$ .  
Salicyl-*N*-methylanilide).  
ST mold fungi at 0.1%. 476.  
187-582-952-1011-1021.  
Salicylanilide, *N*-(2-hydroxyethyl)-;  $HOC_6H_4CON-(CH_2CH_2OH)C_6H_5$  (*N*-Salicyl- $\beta$ -hydroxyethylanilide).  
ST mold fungi at 0.1%. 476.  
187-551-951-1003-1021.  
Propionanilide, chloro-, *N*-methyl-;  $ClC_2H_4CON-(CH_2)_3C_6H_5$  (*N*-Methylchloropropionanilide). 892P.  
187-551-951-1011-1021.  
Acetanilide,  $\alpha$ -chloro-*N*-methyl-;  $C_6H_5N(CH_3)OCC-H_2Cl$  (*N*-Methylchloroacetylanilide). 892P.  
187-951-1011-1021.  
Acetanilide, *N*-methyl-;  $C_6H_5N(CH_3)OCH_2CH_3$ .  
ST mold fungi at 0.3%. 476.  
188-1389.  
Hydroxylamine hydrogen sulfate;  $NH_2OH.H_2SO_4$ .  
(Hydroxylamine acid sulfate).  
T *Macrosporium sarcinaeforme*. 717.  
188-1389.  
Hydroxylamine sulfate;  $2(NH_2OH).H_2SO_4$ .  
T *Macrosporium sarcinaeforme*. 717.  
189-1011-1021.  
Carbamic acid, ethyl ester;  $H_2NCOOC_2H_5$  (Urethane; ethyl carbamate).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
190-588-951-1021-1142.  
Salicylaldehyde oxime, copper derivative;  $[HON:CHC_6H_4O]_2Cu$ ? (Copper salt of salicylaldehyde oxime).  
NT *Macrosporium sarcinaeforme*. 717, 905.  
190-951.  
Quinone dioxime;  $C_6H_4:(NOH)_2$  (Quinone dioximine compound). 721AP.  
196-551-975.  
Amine oxides, phenolic; HO-aryl-N:O. 182P.  
196-989-1022.  
Amine oxide, dodecyl-dimethyl-;  $C_{12}H_{25}N(O)(CH_3)_2$  (Lauryl dimethyldiamine oxide). 1332P.  
200-989.  
Cyanic acid, dodecyl ester;  $C_{12}H_{25}OCN$ . (Lauryl cyanate). 593P.  
206-258-551-951.  
1-Phenol-3-sulfonic acid, 4-nitro-;  $O_2NC_6H_4(SO_3H)-OH$  (*p*-Nitrophenol-2-sulphonic acid).  
MT mold fungi at 0.03%. 476.  
206-541-551-951-1021.  
Salicylic acid, 5-nitro-;  $O_2NC_6H_4(OH)COOH$ .  
MT mold fungi at 0.1%. 476.  
206-541-551-951-1021.  
Benzoic acid, 4-hydroxy-3-nitro-;  $O_2NC_6H_4(OH)-COOH$  (3-Nitro-*p*-hydroxybenzoic acid).  
HT mold fungi at 0.05-0.1%. 476.  
206-541-558-951-1011-1142.  
Phenol, *p*-nitro-, copper acetate compound;  $O_2NC_6H_4OH.Cu(CH_3COO)_2$  (Cu acetate of 4-nitrophenol). 362P.  
206-541-558-951-1011-1244.  
Phenol, *p*-nitro-, zinc acetate compound;  $O_2NC_6H_4OH.(Zn(CH_3COO)_2)_2$  (Zn acetate of 4-nitrophenol). 362P.  
206-542-551-951-1012-1021-1177.  
*o*-Cresol, 3,5-bis(acetoxymercuri)-4-nitro-;  $CH_3(OH)(NO_2)C_6H_3(HgOOCCH_3)_2$  (4-Nitro-3,5-bisacetoxymercuri-2-cresol).  
T wood-destroying fungi at 1-800. 655.  
206-551-951-1021.  
Phenol, *p*-nitro-, formate-;  $HCOOC_6H_4NO_2$  (Formate of 4-nitrophenol). 362P.  
206-551-951.  
Benzaldehyde, *p*-nitro-;  $O_2NC_6H_4CHO$ .  
T wood-destroying fungi but too volatile as wood preservative. 60.  
206-551-865-924-951.  
2-Naphthol, 1-(*p*-nitrophenylazo)-;  $O_2NC_6H_4N:N-C_{10}H_6OH$  (*p*-Nitriline red).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
206-551-852-951.  
Phenol, 2,6-dichloro-4-nitro-;  $Cl_2C_6H_3(NO_2)OH$  (2,6-Dichloro-4-nitrophenol).  
T several species wood-destroying fungi. 60.  
206-551-924.  
2-Naphthol, nitro-;  $O_2NC_{10}H_7OH$ . (Nitro- $\beta$ -naphthol).  
T several species wood-destroying fungi. 60.  
206-551-951.  
Phenol, *o*-nitro-;  $O_2NC_6H_4OH$  (Ortho nitro phenol).  
Injected into chestnut trees for blight control;  
T wood-destroying fungi but too volatile as wood preservative. 60, 175, 1213B.  
206-551-951.  
Phenol, *p*-nitro-;  $O_2NC_6H_4OH$  (Para nitrophenol).  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and wood-destroying fungi but too volatile as wood preservative. 60, 175, 289, 1081, 1213B.  
206-551-951-1113-1177.  
Benzeneearsonic acid, 4-hydroxy-3-nitro-, mercurised;  $H_2O_2AsC_6H_3(OH)(NO_2)+Hg$ . (3-Nitro-4-hydroxyphenylarsonic acids). 1346P.  
206-551-951-1113-1177.  
Arsine oxide, 4-hydroxy-3-nitrophenyl-, mercurised;  $HO(NO_2)C_6H_3As(O)H_2+Hg$ . 1345P.  
206-551-951-1177.  
Phenols, nitro-, mercurised, CU. 786P.  
206-551-951-1177-1291.  
Phenol, 2-chloromercuri-4-nitro-;  $HOC_6H_3(NO_2)-HgCl$  (2-Chloromercuri-*p*-nitrophenol).  
ST mold fungi at 0.01%. 476.  
206-551-1001.  
1-Propanol, 2-methyl-2-nitro-;  $CH_3C(NO_2)(CH_3)-CH_2OH$  (2-Nitro-2-methyl-1-propanol).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.  
206-551-1001.  
1-Butanol, 2-nitro-;  $CH_3CH_2CH(NO_2)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.  
206-552-591-951-1003.  
1,2-Propanediol, 3-(nitrophenoxy)-;  $O_2NC_6H_4OCH_2-CH_2(OH)CH_2OH$  ( $\alpha$ -Glyceryl ether of nitrophenol).  
ST mold fungi at 0.1%; NT mildew fungi in cotton goods. 476.  
206-552-999.  
1,3-Propanediol, 2-ethyl-2-nitro-;  $HOCH_2C(NO_2)(C_2H_5)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.  
206-552-1001.  
1,3-Propanediol, 2-methyl-2-nitro-;  $HOCH_2C(NO_2)(CH_3)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.  
206-553-1001.  
1,3-Propanediol, 2-hydroxymethyl-2-nitro-;  $O_2NC_6H_4OCH_2CH_2OH$ . (Tri(hydroxymethyl)-nitro methane).

- NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 206-588-951-951-1218.  
Phenol, chloronitro-, sodium derivative;  $\text{NaOC}_6\text{H}_4\text{-(NO}_2\text{)Cl}$ . (Sodium nitro-chlorophenol). 175, 614AP.
- 206-588-951-1177-1218-1325.  
Phenol, 4-hydroxymercuri-2-nitro-, sodium derivative;  $\text{NaOC}_6\text{H}_4\text{-(NO}_2\text{)HgOH}$ . (Sodium oxymercuri-ortho-nitrophenolate; mercuriophen).  
T several species wood-destroying fungi. 655.
- 206-588-951-1142-1389.  
Phenol, p-nitro-, copper sulfate compound;  $\text{O}_2\text{NC}_6\text{H}_4\text{-H}_2\text{O.CuSO}_4$ . (Copper sulfate of 4-nitrophenol). 362P.
- 206-588-951-1177-1246.  
Phenol, nitro-, mercurized, alkali derivatives; 786P.
- 206-588-951-1244-1291.  
Phenol, p-nitro-, zinc chloride compound;  $\text{O}_2\text{NC}_6\text{H}_4\text{-OH.ZnCl}_2$ . (Zinc chloride of 4-nitrophenol). 362P.
- 206-591-951-1021.  
Anisole, o-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{OCH}_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 206-671-951-951.  
Aniline, 2-chloro-4-nitro-;  $\text{O}_2\text{N(Cl)C}_6\text{H}_4\text{NH}_2$ . (o-Chloro-p-nitraniline).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 206-671-951.  
Aniline, p-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NH}_2$ . (1-Amino-4-nitrobenzene).  
T *Fusicladium*, *Peronospora*, *Sclerotinia sclerotiorum* at 1-10,000, and wood-destroying fungi but too volatile as wood preservative. 60, 89P, 728.
- 206-671-951-1177.  
Anilines, nitro-, mercurized. 786P.
- 206-681-952.  
Diphenylamine, 2-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NHC}_6\text{H}_5$ .  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 206-681-952.  
Diphenylamine, 4-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NHC}_6\text{H}_5$ .  
T *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 206-681-952-1021.  
p-Toluidine, N-(p-nitrophenyl)-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{-CH}_3$ . (4'-Nitro-4-methyldiphenylamine).  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 206-851-951.  
Benzene, 1-chloro-2-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (o-Nitro-chlorobenzene).  
T wood-destroying fungi but too volatile as wood preservative. 60.
- 206-851-951.  
Benzene, 1-chloro-3-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (m-Nitro-chlorobenzene).  
NT *Macrosporium sarcinaeforme*. 289.
- 206-851-951.  
Benzene, 1-chloro-4-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (p-Nitro-chlorobenzene).  
T *Sclerotinia fructicola* and wood-destroying fungi but too volatile as wood preservative; NT *Macrosporium sarcinaeforme*. 60, 289.
- 206-851-951.  
Benzene, chloronitro-, CU;  $\text{ClC}_6\text{H}_4\text{NO}_2$ .  
Seed disinfectant. 183P.
- 206-855-951.  
Benzene, nitro-pentachloro-;  $\text{O}_2\text{NC}_6\text{Cl}_5$ . (Pentachloro-nitrobenzene).  
T *Botrytis*, damping-off, and mildew of lettuce. 267.
- 206-924.  
Naphthalene, 1-nitro-;  $\text{C}_{10}\text{H}_7\text{NO}_2$ . (α-Nitronaphthalene).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 206-951.  
Benzene, nitro-;  $\text{C}_6\text{H}_5\text{NO}_2$ .  
T *Sclerotinia fructicola* at 1.5%; T wood-destroying fungi but too volatile as wood preservative; NT *Fusarium cubense*. 60, 804, 1420A.
- 206-951-1021.  
Toluene, p-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_3$ .  
Seed disinfectant. 183P.
- 206-951-1031.  
Toluene, nitro-, (mixed);  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_3$ .  
T several species wood-destroying fungi. 60.
- 206-952-1021-1113.  
Aminic acid, benzylmethylphenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{AsO(OH)-C}_6\text{H}_4\text{NO}_2$ . 1069P.
- 206-1003.  
Propane, 1-nitro-;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{NO}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 206-1003.  
Propane, 2-nitro-;  $\text{CH}_3\text{CH(NO}_2\text{)CH}_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 207-541-581-951-1021.  
Salicylic acid, dinitro-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3(\text{OH})\text{COOH}$ .  
MT downy mildew of tobacco. 287.
- 207-541-588-951-1011-1142.  
Phenol, 2,4-dinitro-, copper acetate compound;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{OH.Cu(OOCC}_6\text{H}_5)_2$ . 362P.
- 207-541-588-951-1011-1244.  
Phenol, 2,4-dinitro-, zinc acetate compound;  $(\text{O}_2\text{N})_2\text{-C}_6\text{H}_3\text{OH.Zn(OOCC}_6\text{H}_5)_2$ . 362P.
- 207-551-951-1021.  
Phenol, 2,4-dinitro-, formate;  $\text{HOOCC}_6\text{H}_3(\text{NO}_2)_2$ . 362P.
- 207-581-667-951-975-1022.  
Phenol, dinitro-, compound with arylbiguanide;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2\text{-H}_2\text{NC(NH)NHC(NH)NHR}$ . 630P.
- 207-581-667-952-961-1022.  
Phenol, 2-cyclohexyl-4,6-dinitro-, compound with phenylbiguanide;  $\text{C}_6\text{H}_5\text{NHC(NH)NHC(NH)NH}_2\text{-C}_6\text{H}_3(\text{NO}_2)_2(\text{OH})\text{C}_6\text{H}_{11}$ . (Phenylbiguanide salt of 2,4-dinitro-6-cyclohexylphenol). 630P.
- 207-581-668-951-975-1021.  
Phenol, dinitro-, compound with diarylguanidine;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2\text{-RNHC(NH)NHR'}$ . 630P.
- 207-581-924.  
1-Naphthol, 2,4-dinitro-;  $\text{HOC}_{10}\text{H}_6(\text{NO}_2)_2$ . (Dinitro-naphthol; Martius yellow).  
Fungicide at 1-60,000. 1081.
- 207-581-951.  
Phenol, 2,4-dinitro-;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2$ .  
T *Cladosporium fulvum* and spores of apple scab. 1273, 1476.
- 207-581-951.  
Phenol, 2,6-dinitro-;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2$ .  
T several species wood-destroying fungi. 60.
- 207-581-951.  
Phenol, dinitro-, CU.  
Used in winter treatments of fruit trees and grapevines to hinder development of *Penicillium glaucum* and *Aspergillus niger*. 1081.
- 207-581-951-961.  
Phenol, 2-cyclohexyl-4,6-dinitro-;  $\text{HO(O}_2\text{N})_2\text{C}_6\text{H}_3\text{-C}_6\text{H}_{11}$ .  
T *Rhizoctonia* sp. and *Fusarium* sp. 18.
- 207-581-951-961.  
Phenol, o-cyclohexyldinitro-, CU;  $\text{HO(O}_2\text{N})_2\text{C}_6\text{H}_3\text{-C}_6\text{H}_{11}$ .  
NT wood fungi. 655.
- 207-581-951-1021.  
Cresol, dinitro-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (Victoria yellow).  
Fungicide at 1-60,000; used to check *Merulius lacrymans*. 1081.
- 207-581-951-1021.  
o-Cresol, 4,6-dinitro-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (Incorrectly named 3,5-dinitroorthocresol).  
T bean mildew (*Erysiphe polygoni*), *Cladosporium fulvum*, apple scab, and several fungi; NT corn rot (*Fusarium* sp.). 13, 728, 1273, 1476.
- 207-581-952.  
Phenol, dinitro-o-phenyl-, compounds with organic nitrogen bases.  
T molds and other fungi. 121P.
- 207-581-952-1045.  
Phenol, dinitro-o-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_3\text{OH(NO}_2)_2$ .  
T molds and other fungi; NT wood-destroying fungi. 121P, 655.
- 207-581-952-1453.  
Phenol, dinitro-o-phenyl-, salts.  
T molds and other fungi. 121P.



207-525-671-951-952.

Phenol, 2-arylhexyl-4,6-dinitro-, condensation compound with cyclohexylamine;  $(C_6H_{11})_2NH.HOOC.C_6H_4(NO_2)_2$ . (Macrocyclic-amine salt of 2,4-dinitro-6-arylhexyl phenol). 128P.

207-525-672-951-1011-1021-1142.

Cresol, dinitro-, ethylenediaminocopper derivative;  $[CH_3C_6H_4(NO_2)_2O]_2Cu(OH_2NH_2)_2$ . (Ethylenediaminocopper dinitrocresylate).

NT *Macrosporium sarcinaeforme*, *Venturia inaequalis*, and *Pirina*. 905.

207-525-681-951-952.

Phenol, 2-arylhexyl-4,6-dinitro-, condensation compound with diethylhexylamine;  $(C_6H_{11})_2NH.HOOC.C_6H_4(NO_2)_2$ . (Diethylhexylamine salt of 2,4-dinitro-6-arylhexyl phenol). 12, 128P, 129P.

207-525-681-951-953-1022.

Phenol, 2-arylhexyl-4,6-dinitro-, condensation compound with di-(2-methylarylhexyl)-amine;  $(CH_3C_6H_4)_2NH.HOOC.C_6H_4(NO_2)_2$ . (Di-(2-methylarylhexyl)-amine salt of 2,4-dinitro-6-arylhexyl phenol). 128P.

207-525-951-1021-1105-1142.

Cresol, dinitro-, aminocopper derivative;  $Cu(NH_4)_2[OC_6H_4(NO_2)_2CH_3]_2$ . Copper aminodinitrocresylate).

T spores of *Venturia inaequalis*. 905.

207-525-951-1142-1289.

Phenol, 2,4-dinitro-, copper sulfate compound;  $(O_2N)_2C_6H_3OH.CuSO_4$ . 352P.

207-525-951-1215.

Phenol, dinitro-, sodium derivative;  $(O_2N)_2C_6H_4ONa$ . (Sodium dinitrophenolate).

T several species wood-destroying fungi, 655, 657.

207-525-951-1244-1291.

Phenol, 2,4-dinitro-, zinc chloride compound;  $(O_2N)_2C_6H_3OH.ZnCl_2$ . 352P.

207-651-952.

Diphenylamine, 2,4-dinitro-;  $(O_2N)_2C_6H_4NHC_6H_5$ .

NT oomycetes of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 581.

207-851-951.

Benzene, 1-chloro-2,4-dinitro-;  $(O_2N)_2C_6H_4Cl$ .

T several species wood-destroying fungi. 60.

207-851-951.

Benzene, chlorodinitro-, CU;  $(O_2N)_2C_6H_4Cl$ .

T *Macrosporium sarcinaeforme*. 717.

207-853-951.

Benzene, dinitrotrichloro-;  $C_6HCl_3(NO_2)_2$ . 355P.

207-854-951.

Benzene, 1,3-dinitro-2,4,5,6-tetrachloro-;  $C_6Cl_4(NO_2)_2$  (1,2,4,6-Tetrachloro-3,5-dinitro-benzene). 355P.

207-924.

Naphthalene, dinitro-;  $C_{10}H_6(NO_2)_2$ .

T *Fusicladium* and *Peronospora*. 59P.

207-951.

Benzene, m-dinitro-;  $C_6H_4(NO_2)_2$ .

T *Sclerotinia sclerotiorum* at 1-1,000. 725.

208-551-951.

Picric acid;  $(O_2N)_3C_6H_2OH$ . (Picronitric acid; nitroanthric acid; carbasotic acid; 2,4,6-trinitrophenol; trinitrophenol).

T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and wood-destroying fungi; used occasionally as fungicide in dermatomycosis. 20, 175, 263, 289, 606, 717, 1213B.

208-552-951.

Styphnic acid;  $(O_2N)_3C_6H(OH)_2$ . (Tri-nitro-resorcinol).

Fungicide at 1-1,000. 355P.

208-552-951-1215.

Picric acid, silver derivative;  $(O_2N)_3C_6H_2OAg$ . (Silver picrate; picratol; silver trinitrophenoxide; silver trinitrophenolate).

T vaginitis and urethritis caused by *Trichomonas vaginalis* or *Mentilla albicans*. 233.

209-651-952.

Dipicrylamine;  $[O_2N)_2C_6H_4]_2NH$ .

NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 581.

220-350-1022.

4-Morpholinethiocarbonyl disulfide;  $(C_4H_8NO)C(S)-$

$SC(S)(C_4H_8NO)_2$ . (Thiourea disulfide of morpholine).

T *Macrosporium sarcinaeforme*. 717.

220-372-1021-1244.

4-Morpholinethiocarbonyl disulfide acid, zinc salt;  $[(C_4H_8NO)C(S)S]_2Zn$ . (Zinc salt of dithiocarbamic acid of morpholine).

NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.

220-671-951-1003.

Propiophenone,  $\beta$ -4-morpholinyl-;  $C_6H_5COOCH_2CH_2(C_4H_8NO)$ . ( $\alpha$ -Benzoyl- $\beta$ -morpholino ethane). 719P.

220-681-951-1022.

Phenol, 2,4,6-tri-(4-morpholinylmethyl)-;

$[(C_4H_8NO)CH_2]_3C_6H_2OH$ . 151P.

220-1232.

Morpholine, 4,4-dithio-;  $(C_4H_8NO)H_2S$ . (Morpholine periodide).

Used for dermal treatments. 110, 223, 1141P.

245-671-671-1022.

Betaine iodide. (Trimethyl glycocoll iodide).

Used for impregnating paper wraps, etc., to protect fruits for extended periods against attack by molds. 110, 595P.

250-999-1011-1021.

Xanthic acid, dodecyl ester;  $C_{12}H_{25}OCSSC_{12}H_{25}$ .

(Lauryl xanthate). 593P.

250-1011-1021-1124.

Xanthic acid, cadmium salt;  $(C_6H_5OCSS)_2Cd$ .

Seed disinfectant. 950P, 1432.

250-1012-1021.

Xanthic acid, ethyl ester;  $C_2H_5OCSSC_2H_5$ . (Ethyl ethoxymethane thionothiolate; ethyl xanthogenate).

T spores of *Tilletia tritici*. 1178, 1212P.

250-1021-1142.

Xanthic acid, substituted, copper salt;  $(R-O-CSS)_2Cu$ . (Copper xanthates).

Unsatisfactory control of disease under field conditions. 287.

255-541-581-951-1021.

Salicylic acid, sulfo-;  $HO(HO_2S)C_6H_4COOH$ .

ST mold fungi at 0.1%. 476.

255-541-581-952-1027.

Sulfonic acids, alkyl hydroxydiphenyl-. 499P.

255-541-581-952-1027-1109.

Sulfonic acids, alkyl hydroxydiphenyl-, ammonium salts. 499P.

255-541-581-952-1027-1246.

Sulfonic acids, alkylhydroxydiphenyl-, metal salts. 499P.

255-542-1045.

Dicarboxylic acid, sulfonated.

NT onion downy mildew. 1506.

255-551-951-953-1011-1246.

Stearic acid, fluoro-, 2-sulfoethyl ester, salt;  $FCH_2-(CH_2)_{10}COOCH_2CH_2SO_3M$ . (Salts of monofluorostearic acid esters of hydroxyethanesulfonic acid). 345P.

255-551-980-1003.

1-Propanesulphonic acid, 3-hydroxy-, montanic acid ester;  $C_{29}H_{57}COOCH_2CH_2SO_3H$ .

Used in control of *Peronospora* and *Fusicladium*. 355P, 1178.

255-551-980-1003-1218.

Montanic acid, 2-sulfoethyl ester, sodium salt;  $C_{29}H_{57}COOCH_2CH_2SO_3Na$ . (Montanic acid ester of Na 1-hydroxy propane-2-sulfonate). 355P.

255-551-980-1011.

Methionie acid, montanic acid ester;  $C_{29}H_{57}COOC_2H_4SO_3H$ .

Used in control of *Peronospora* and *Fusicladium*. 355P, 1178.

255-551-671-924.

2-Naphthol-4-sulfonic acid, 1-amino-;  $H_2NC_6H_4(OH)SO_3H$ .

T *Macrosporium sarcinaeforme*. 717.

255-551-671-924.

1-Naphthol-5-sulfonic acid, 8-amino-;  $H_2NC_6H_4(OH)SO_3H$ . (1-Amino-8-naphthol-4-sulfonic acid; acid B).

T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 239.

255-551-671-924.

1-Naphthol-3-sulfonic acid, 6-amino-;  $H_2NC_6H_4-$

- (OH)SO<sub>3</sub>H. (3-Amino-4-naphthol-7-sulfonic acid; acid J).
- T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 258-581-671-924.
- 1-Naphthol-8, 8-disulfonic acid, 8-amino-; H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>-H<sub>2</sub>(OH)(SO<sub>3</sub>H)<sub>2</sub>. (1-Amino-8-naphthol-3,6-disulfonic acid; acid H).
- T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 258-581-730-871-950-1110.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, antimony salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>3</sub>Sb.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1142.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, copper salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Cu.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1162.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, iron salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Fe.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1166.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, lead salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Pb.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1176.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, mercury salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Hg.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1182.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, nickel salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Ni.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1216.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, silver salt; IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>Ag.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1234.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, tin salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Sn.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1244.
- 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, zinc salt; [IC<sub>6</sub>H<sub>4</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Zn.
- Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-950.
- 5-Quinolinesulfonic acid, 8-hydroxy-; HOC<sub>6</sub>H<sub>4</sub>N(SO<sub>3</sub>H).
- T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 258-581-730-950-1244.
- 5-Quinolinesulfonic acid, 8-hydroxy-, zinc salt; [HOC<sub>6</sub>H<sub>4</sub>N(SO<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Zn.
- T *Macrosporium sarcinaeforme*. 289, 717.
- 258-581-951-1142.
- Phenolsulfonic acid, mixed, copper salt; (HOC<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>)<sub>2</sub>Cu.
- HT mold fungi at 0.1% and MT at 0.05%. 476.
- 258-581-951-1172.
- 1-Phenol-4-sulfonic acid, magnesium salt; (HOC<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>)<sub>2</sub>Mg. (Phenol-p-sulphonic acid, magnesium salt).
- MT mold fungi at 0.3%. 476.
- 258-581-951-1177-1291.
- 1-Phenol-4-sulfonic acid, bis(chloromercuri)-; HOC<sub>6</sub>H<sub>4</sub>(SO<sub>3</sub>H)(HgCl)<sub>2</sub>. (Dichloromercuriphenol-p-sulfonic acid).
- ST mold fungi at 0.01%. 476.
- 258-581-951-1244.
- Phenolsulfonic acid, mixed, zinc salt; (HOC<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>)<sub>2</sub>Zn.
- HT mold fungi at 3.0%. 476.
- 258-581-952-1001-1212.
- Phenylsulfonic acid, butylphenyl-, sodium salt, OU;
- C<sub>4</sub>H<sub>9</sub>C<sub>6</sub>H<sub>4</sub>(OH)(C<sub>6</sub>H<sub>5</sub>)SO<sub>3</sub>Na. (Sodium monosulfonate of butylphenylphenol).
- NT onion downy mildew. 1506.
- 258-582-955-672-924-953-1021-1212.
- Trypan blue; [HOC<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)(SO<sub>3</sub>Na)<sub>2</sub>N:NC<sub>6</sub>H<sub>4</sub>-(CH<sub>3</sub>)<sub>2</sub>] (Sodium bitolylidazo-bis-3-amino-1-naphthol-3,6-disulfonate).
- Injected into chestnut trees for blight control. 175, 1213B.
- 258-582-956-953-1021.
- p-Toluenesulfonic acid, α,α-bis(3-hydroxy-2,4,6-trichlorophenyl)-; [Cl<sub>3</sub>(HO)C<sub>6</sub>H<sub>2</sub>]CHC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H. (3,3'-Dihydroxy-2,2',4,4',6,6'-hexachlorotriphenylmethane-4''-sulfonic acid). 1453P.
- 258-582-924-1021-1176.
- Naphtholsulfonic acid, methylene bis-, mercury salt, OU; CH<sub>2</sub>[C<sub>6</sub>H<sub>4</sub>(OH)(SO<sub>3</sub>)<sub>2</sub>Hg]<sub>2</sub>. 177.
- 258-582-701-1021-1176-1196.
- Lignomethylenedisulfonic acid, and K<sub>2</sub>Hg(CN)<sub>4</sub>. 177.
- 258-582-1021-1176.
- Lignomethylenedisulfonic acid, mercury salt. 177.
- 258-665-672-924-953-1212.
- Congo red; [H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>(SO<sub>3</sub>Na)<sub>2</sub>N:NC<sub>6</sub>H<sub>4</sub>]<sub>2</sub>.
- Injected into chestnut trees for blight control. 175, 1213B.
- 258-671-924.
- 1-Naphthalenesulfonic acid, 2-amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>7</sub>-SO<sub>3</sub>H. (2 Naphthyl amine 1 sulfonic acid; Tobias acid).
- T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 258-671-924.
- 2-Naphthalenesulfonic acid, 5-amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>7</sub>-SO<sub>3</sub>H. (1,6 Naphthyl amine sulfonic acid; 1-naphthylamine-6-sulfonic acid?).
- T *Macrosporium sarcinaeforme*. 717.
- 258-671-924.
- 2-Naphthalenesulfonic acid, 5-(+8)amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>7</sub>SO<sub>3</sub>H. (1,6+1,7 Naphthyl amine sulfonic acid; Cleve's acid).
- T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 258-671-924.
- 2-Naphthalenesulfonic acid, 8-amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>7</sub>-SO<sub>3</sub>H. (1,7 Naphthyl amine sulfonic acid; 1-naphthylamine-7-sulfonic acid?).
- T *Macrosporium sarcinaeforme*. 717.
- 258-671-951.
- Sulfanilic acid; H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H. (p-Aminobenzenesulfonic acid).
- T *Macrosporium sarcinaeforme*; ST *Sclerotinia sclerotiorum* at 1-1,000. 289, 717, 728.
- 258-671-951-1142.
- Sulfanilic acid, copper salt; (H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>)<sub>2</sub>Cu.
- T spores of *Venturia inaequalis*. 905.
- 258-781-853-953-1023.
- o-Toluenesulfonic acid, α,α-bis(p-chlorobenzyl)-thio-; HO<sub>2</sub>SC<sub>6</sub>H<sub>4</sub>CH(SCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>Cl)<sub>2</sub>. 523P.
- 258-781-853-953-1023.
- m-Toluenesulfonic acid, α,α-bis(p-chlorobenzyl)-thio-; HO<sub>2</sub>SC<sub>6</sub>H<sub>4</sub>CH(SCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>Cl)<sub>2</sub>. 523P.
- 258-791-951-1011-1177-1212.
- Benzenesulfonic acid, p-ethylmercurithio-, sodium salt; CH<sub>3</sub>CH<sub>2</sub>HgSC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na? (Sodium p-ethylmercuri thiophenyl-sulfonate).
- T citrus stem-and rot. 566.
- 258-831-1021-1109-1177-1235.
- Methanesulfonic acids, halo-, mercurized, ammonium salt. 75P.
- 258-831-1021-1177.
- Methanesulfonic acids, halo-, mercurized. 75P.
- 258-831-1021-1177-1246.
- Methanesulfonic acids, halo-, mercurized, alkaline earth salt. 75P.
- 258-831-1021-1177-1246.
- Methanesulfonic acids, halo-, mercurized, alkali salt. 75P.
- 258-924.
- Naphthalenesulfonic acid; C<sub>10</sub>H<sub>7</sub>SO<sub>3</sub>H. (Sulfonaphthalene). 476, 523P.
- 258-924-1027.
- Naphthalenesulfonic acids, alkyl-.
- NT onion downy mildew. 353P, 1406.

- 255-284-1218.  
Naphthalenesulphonic acids, sodium salt;  $C_{10}H_7SO_3Na$ .  
ST mold fungi at 0.33%. 476.
- 255-261-1214.  
p-Toluenesulphonic acid, zinc salt;  $(CH_3C_6H_4SO_3)_2Zn$ .  
MT mold fungi at 0.5%. 476.
- 255-951-1037.  
Benzenesulfonic acid, alkyl-, esters or salts. (Alkyl substituted benzene sulfonates).  
Used for mildew-proofing. 817P.
- 255-951-1215.  
Benzenesulfonic acid, sodium salt;  $C_6H_5SO_3Na$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 255-1037.  
Alkylsulfonic acids, oxygen containing. 745P.
- 255-1045-1177-1246.  
Sulfonic acids, mercurised, alkali salts. 786P.
- 261-551-1021-1215.  
Sodium formaldehydesulfoxylate;  $HOCH_2SO_2Na$ .  
Non-fungicidal and caused injury to leaf tissue. 903.
- 261-552-671-681-952-1031-1113-1215.  
Neocarsphenamine;  $HO(H_2N)C_6H_4As:AsC_6H_4(OH)-NECH_2SO_2Na$ .  
Nearly as toxic to germinating grain as to fungus itself. 74.
- 264-953-975-1021.  
Sulfone, aryltrifluoromethyl-;  $RSO_2CF_3$ . 342P.
- 265-440-950.  
Phenothiazine, 5-oxide;  $O:(C_{12}H_8NS)$ . (Phenothiazine sulphoxide). 577.
- 301-950.  
Phenoxathiin;  $(C_{12}H_8OS)$ . (Phenothioxin; phenoxthin).  
T bean mildew (*Strypha polygoni*). 13.
- 325-1021-1027.  
Formic acid, chloro-, alkyl esters;  $ClCOOR$ . (Alkyl esters of chlorocarbonic acids). 1181.
- 331-440-950-1021.  
Phenothiazine, N-chloroformyl-;  $(C_{12}H_8NS)COCl$ . (Phenothiazine-N-carboxylic acid chloride).  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 331-1021.  
Phosgene;  $COCl_2$ . (Carbonyl chloride; chloroformyl chloride).  
Injurious to plants. 1041.
- 360-1025.  
Formamide,  $\alpha,\alpha'$ -dithiobis(N,N-dimethylthio-;  $(CH_3)_2N(S)SC(S)(N(CH_3)_2)_2$ . (Tetramethylthiuram disulfide; TMTD; TUADS; Thioasan; Arasan; du-Bay 1205 FF, etc.).  
Inhibited growth of *Aspergillus niger* and *Fomes annosus*; T apple scab and cedar apple rust. 287, 288, 304P, 1178, 1273, 1405P, 1406P.
- 365-1014-1022.  
Carbamic acid, diethyldithio-, anhydride;  $(C_2H_5)_2N(S)SC(S)N(C_2H_5)_2$ . (Thiuram sulphide, tetraethyl-).  
MT spores on barley. 1178, 1405P, 1406P.
- 365-1022-1045.  
Carbamic acid, dithio-, anhydride, substituted. (Thiuram sulfoxides).  
Effective on certain fungus and bacteria skin infections. 2403.
- 365-1025.  
Carbamic acid, dimethyldithio-, anhydride;  $(CH_3)_2N(S)SC(S)N(CH_3)_2$ . (Tetramethylthiuram sulfide).  
T spores of apple scab and smut on barley; protects treated cloth and pine wood against fungi. 304P, 1178, 1405P, 1406P.
- 370-665-692-953-1024.  
Carbamic acid, dimethyldithio-, triphenyl-guanidine salt;  $(CH_3)_2N(S)SC(S)NEH(C_6H_5)_3C:(NC_6H_5)_3-NHC_6H_5$ .  
Inhibits growth of *Aspergillus niger* and *Fomes annosus*. 1178, 1405P, 1406P.
- 370-692-1012-1021.  
Carbamic acid, diethyldithio-, lauryl ester;  $(C_2H_5)_2N(S)SC(S)H_{11}$ . (Lauryl diethyldithiocarbamate). 222P.
- 370-692-1021.  
Carbamic acid, dodecylidithio-;  $(C_{12}H_{25})_2N(S)SC(S)H$ . (Dodecylidithiocarbamate). 563P.
- 370-1011-1022-1134.  
Carbamic acid, ethylmethyldithio-, cadmium salt;  $[C_2H_5(CH_3)N(S)S]_2Cd$ .  
Inhibited growth of *Aspergillus niger* and *Fomes annosus*. 1178, 1405P, 1406P.
- 370-1011-1023.  
Carbamic acid, dimethyldithio-, ethyl ester;  $(CH_3)_2N(S)SC_2H_5$ .  
T spores on barley. 1178, 1405P, 1406P.
- 370-1021-1045.  
Carbamic acid, dithio-, substituted;  $RE'N(S)SC(S)H$ . (Dithiocarbamates).  
Effective on certain fungus and skin infections of dogs; T *Ustilago hordei*, *Fomes annosus*, and *Aspergillus niger*. 387P, 1178, 1403.
- 370-1023-1162.  
Carbamic acid, dimethyldithio-, ferric salt;  $[(CH_3)_2N(S)S]_2Fe$ . (Ferric dimethyldithio-carbamate; ferrate; duBay 870, IN-870).  
T apple scab and rust, *Aspergillus niger*, and *Fomes annosus*. 287, 1178, 1405P, 1406P.
- 376-952-1021.  
Carbanilide, thio-;  $(C_6H_5NH)_2CS$ . ( $N,N'$ -Diphenylthiourea).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 728.
- 376-1021.  
Urea, thio-;  $H_2NC(S)NH_2$ . (Thiocarbamide).  
HT mold fungi at 0.8%. 476, 717, 1471.
- 401-571-951-1011-1021.  
Thiocyanic acid, phenacyl ester;  $C_6H_5COCH_2SCN$ .  
HT *Pestalotia stellata*; MT *Sclerotinia fructicola* and *Botrytis paeoniae*. 1432, 1487.
- 401-581-851-952-1021.  
Benzohydrol, 4-chloro- $\alpha$ -thiocyano-;  $C_6H_5C(OH)(SCN)C_6H_4Cl$ . (Thiocyanic acid, p-chloro-benzophenone ester).  
ST *Sclerotinia fructicola* and *Botrytis paeoniae*. 1432, 1487.
- 401-671-951-1021.  
Aniline, thiocyanate-, CU;  $H_2NC_6H_5SCN$ ?  
MT *Sclerotinia fructicola*. 1432, 1487.
- 401-696-989-1011-1023-1291.  
Ammonium chloride, dodecylidimethyl(2-thiocyanate-ethyl)-;  $C_{12}H_{25}N(CH_3)_2(Cl)CH_2CH_2SCN$ . 529P.
- 401-989.  
Thiocyanic acid, n-dodecyl ester;  $C_{12}H_{25}SCN$ .  
T spores of apple scab. 1273, 1482.
- 401-996.  
Thiocyanic acid, sec-dodecyl ester;  $C_{12}H_{25}SCN$ . 1273.
- 401-1045.  
Thiocyanate compound. 1023P.
- 411-951-1011-1021.  
Isothiocyanic acid, phenethyl ester;  $C_6H_5CH_2CH_2NCS$ . ( $\beta$ -Phenethyl isothiocyanate). 716.
- 411-951-1021.  
Isothiocyanic acid, phenyl ester;  $C_6H_5NCS$ . (Phenyl mustard oil).  
T *Botrytis paeoniae* and *Pestalotia stellata*; MT *Sclerotinia fructicola*. 575P, 929, 930, 1432, 1487.
- 411-1003-1021-1030.  
Isothiocyanic acid, allyl ester;  $CH_2=CHCH_2NCS$ . (Allyl isothiocyanate; 2-propenyl isothiocyanate; allyl mustard oil).  
HT several facultative saprophytes; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 716, 1448.
- 440-521-692-950-1024.  
Methylene blue;  $(CH_3)_2N(C_{12}H_{25}NS)(CH_3)_2Cl$ . (3,9-Bisdimethylaminophenathionium chloride).  
Injected into chestnut trees for blight control; T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 175, 289, 1213E.
- 440-571-581-950.  
3-Isophenothiazin-3-one, 7-hydroxy-;  $O:(C_{12}H_8NS)-OH$ . (Thanol).  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 577.
- 440-571-950.  
3-Isophenothiazin-3-one;  $O:(C_{12}H_8NS)$ . (Phenothiazone).

- T Sclerotinia fructicola* and *Glomerella cingulata*;  
NT *Macrosporium sarcinaeforme*. 287, 289, 877.  
440-880.
- Phenothiazine;  $C_{12}H_8NS$ .  
*T Sclerotinia fructicola*, *Glomerella cingulata*,  
*Macrosporium sarcinaeforme*, and bean mildew. 13,  
289, 878.
- 460-571-700.  
Pseudothiazolantoin;  $O:(C_6H_5NS):NH$ . (2-Imino-  
4-keto-tetrahydro-thiazole). 18P, 85P, 594P, 595P,  
596P, 1178.
- 460-572.  
2,4(3,5)-Thiasoledione;  $O:(C_6H_5NS):O$ . (2,4-Diketo-  
tetrahydrothiazole). 18P, 85P, 594P, 595P, 596P,  
1178.
- 460-581-671-950.  
6-Benzothiasolol, 2-amino-;  $HO(C_6H_4NS)NH_2$ . (Ben-  
sothiasole, 2-amino-6-hydroxy-). 18P, 85P, 594P,  
595P, 596P, 1178.
- 460-591-671-950-1011.  
Benzothiasole, 2-amino-6-ethoxy-;  $C_6H_5O(C_6H_4NS)-$   
 $NH_2$ . (Benzothiasole, 1-amino-5-ethoxy).  
Disinfectant for seeds, corms, tubers, etc. 85P, 594P,  
595P, 596P, 1178.
- 460-668-950.  
Benzothiasole, guanido-,  $CU$ ;  $(C_6H_4NS)NHC(:NH)-$   
 $NH_2$ .  
NT *Sclerotinia fructicola* and *Botrytis paeoniae*.  
1432, 1487.
- 460-671-851-950.  
Benzothiasole, 2-amino-6-chloro-;  $Cl(C_6H_4NS)NH_2$ .  
(Benzothiasole, 1-amino-5-chloro-).  
*T Sclerotinia cinerea*, *Phoma pomi*, *Glomerella cin-*  
*gulata*, and *Botrytis cinerea*; disinfectant for seeds,  
corms, tubers, etc. 18P, 594P, 595P, 596P, 1178.
- 460-671-924.  
2,1-Naphthothiasole, 2-amino-;  $(C_{11}H_8NS)NH_2$ .  
(1,2-Naphthiasole, 1-amino-).  
Disinfectant for seeds, corms, tubers, etc. 596P, 1178.
- 460-671-950.  
Benzothiasole, 2-amino-;  $(C_6H_4NS)NH_2$ . (Benzothia-  
sole, 1-amino-).  
Disinfectant for seeds, corms, tubers, etc.; *T Fomes*  
*annosus*. 594P, 595P, 596P, 1178.
- 460-671-950-1021.  
Benzothiasole, 2-amino-4-methyl-;  $CH_3(C_6H_4NS)-$   
 $NH_2$ . (Benzothiasole, 1-amino-3-methyl-).  
Disinfectant for seeds, corms, tubers, etc. 596P,  
1178.
- 460-672-950.  
Benzothiasole, 2,5-diamino-;  $(C_6H_4NS)(NH_2)_2$ .  
(Benzothiasole, 1,4-diamino-). 18P, 85P, 594P, 595P,  
596P, 1178.
- 460-791-950.  
Benzothiasole, 2-mercapto-;  $(C_6H_4NS)SH$ . (Benso-  
thiasole, 1-mercapto-).  
*T Fomes annosus*, *Sclerotinia cinerea*, *Phoma pomi*,  
*Glomerella cingulata*, and *Botrytis cinerea*; disin-  
fectant for seeds, corms, tubers, etc. 18P, 287, 594P,  
595P, 596P, 1178.
- 460-791-950-951-1177.  
Benzothiasole, mercapto-, phenylmercury derivative;  
 $(C_6H_4NS)SHgC_6H_5$ ? 368P.
- 460-791-950-1244.  
Benzothiasole, mercapto-, zinc derivative;  $[(C_6H_4-)$   
 $NS]_2Zn$ .  
*T Macrosporium sarcinaeforme* and *Sclerotinia fruc-*  
*ticola*. 288, 717.
- 460-851-951-1021-1276.  
Thiasole, 4-(p-chlorophenyl)-2-methyl-, hydro-  
bromide;  $ClC_6H_4(C_6H_4NS)CH_3.HBr$ . (Thiasole hy-  
drobromide, 2-methyl-4-(p-chlorophenyl).  
ST *Sclerotinia fructicola* and *Botrytis paeoniae*. 647,  
1482, 1487.
- 472-1022.  
Formamidine,  $\alpha,\alpha'$ -azobis(chloro-;  $CIN:C(NH_2)N:-$   
 $NO(NH_2):NCl$ . (Azochloramide).  
*T Macrosporium sarcinaeforme* and *Sclerotinia*  
*fructicola*. 289, 717.
- 477-1021.  
Methylamine, *N,N*-dichloro-;  $CH_3NCl_2$ . (Mono-  
methylchloramine).  
Effective in treatment of lemons and grapefruit.  
804.
- 477-1022.  
Dimethylamine, *N*-chloro-;  $(CH_3)_2NCl$ . (Dimethyl-  
chloramine).  
Effective in treatment of lemons and grapefruit to  
sterilize surface of fruit. 804.
- 494-571-924.  
2(1)-Naphthalenone, 1-chloroimino-;  $ClN:C_{10}H_6O$ .  
(*N*-Chloro-1,2-naphthoquinonimine).  
Seed disinfectant. 367P.
- 494-571-951-1021-1291.  
*o*-Toluquinonimine, *N*-chloro-;  $CH_3C_6H_4(O):NCl$ .  
Seed disinfectant. 367P.
- 494-571-951-1291.  
*p*-Quinonimine, *N*-chloro-;  $C_6H_4(O):NCl$ .  
Seed disinfectant. 367P.
- 494-857-951.  
Cyclohexane, 1-chloroiminoacetachloro-;  $C_6H_9Cl_2$   
( $:NCl$ ). (Octachloro (chloroimino) hexahydroben-  
zene). 87P.
- 494-951.  
*p*-Quinonedimine, *N,N'*-dichloro-;  $C_6H_4(:NCl)_2$ .  
Seed disinfectant. 367P.
- 541-551-581-952-1022.  
Salicylic acid, *o*-carboxyphenyl ester;  $HOC_6H_4COOC_6-$   
 $H_4COOH$ . (Salicyl salicylate).  
MT downy mildew of tobacco. 287.
- 541-551-951-1011-1021.  
Acetylsalicylic acid;  $CH_3COOC_6H_4COOH$ . (Aspirin).  
HT mold fungi at 0.1% and MT at 0.05%; NT  
*Macrosporium sarcinaeforme* and *Sclerotinia fruc-*  
*ticola*. 289, 476.
- 541-571-588-620-842-950-951-1177-1218-1325.  
Mercurochrome;  $C_{20}H_8Br_2HgNa_2O_6$ . (Disodium 2,7-  
dibromo-4-hydroxymercurifluorescein).  
T wood-destroying fungi. 60.
- 541-571-588-620-844-950-951-1021-1218.  
Eosin;  $C_{20}H_8Br_4Na_2O_6$ . (Tetrabromfluorescein),  
*T Rhizopus nigricans* and *Fusarium oxysporum*.  
132A, 808.
- 541-571-588-620-950-951-1021-1176-1218.  
Fluorescein, mercury salt;  $[C_{20}H_{12}NaO_6]_2Hg$ . 205P.
- 541-571-730-740-952-1023-1142.  
Benzoic acid, *o*-benzoyl-, copper nicotine salt;  
 $(C_6H_5COOC_6H_4COO)_2Cu.C_{10}H_{14}N_2$ .  
*T Macrosporium sarcinaeforme*. 717.
- 541-571-952-1022.  
Benzoic acid, *o*-benzoyl-;  $C_6H_5COOC_6H_4COOH$ .  
NT *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 541-571-952-1022-1142.  
Benzoic acid, *o*-benzoyl, copper salt;  $[C_6H_5COC_6-$   
 $H_4COO]_2Cu$ .  
*T Macrosporium sarcinaeforme*. 717.
- 541-581-671-951-1003-1142.  
Tyrosine, copper salt;  $[HOC_6H_4CH_2CH(NH_2)COO]_2-$   
 $Cu$ .  
T spores of *Venturia inaequalis*. 905.
- 541-581-671-951-1021.  
Salicylic acid, 5-amino-;  $H_2NC_6H_4(OH)COOH$ .  
ST mildew fungi in cotton. 476.
- 541-581-730-740-951-1011-1021-1142.  
Salicylic acid, copper nicotine salt;  $[(C_6H_4N)(C_6H_4-$   
 $NOCH_3)]_2[HOC_6H_4COO]_2Cu$ .  
*T Macrosporium sarcinaeforme*. 717.
- 541-581-924-951-1021-1177.  
1-Naphthoic acid, 2-hydroxy-, phenylmercury salt;  
 $C_6H_5HgOOC_{10}H_7OH?$  ( $\alpha$ -Hydroxynaphthoic acid,  
mercury salt). 368P.
- 541-581-924-951-1021-1177.  
2-Naphthoic acid, 1-hydroxy-, phenylmercury salt;  
 $C_6H_5HgOOC_{10}H_7OH?$  ( $\beta$ -Hydroxynaphthoic acid,  
mercury salt). 368P.
- 541-581-951-1003-1030.  
Cinnamic acid, *o*-hydroxy-;  $HOC_6H_4CH:CHCOOH$ .  
(*o*-Coumaric acid).  
MT mold fungi at 0.3% and ST at 0.1%. 476.
- 541-581-951-1003-1030.  
Cinnamic acid, *p*-hydroxy-;  $HOC_6H_4CH:CHCOOH$ .  
HT mold fungi at 0.3% and MT at 0.1%. 476.
- 541-581-951-1011.  
 $\alpha$ -Toluic acid, *p*-hydroxy-;  $HOC_6H_4CH_2COOH$ .  
ST mold fungi at 0.3-0.1%. 476.

- 541-551-951-1011.  
*D-Mandelic acid*;  $C_6H_5CH(OH)COOH$ .  
*T Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 541-551-951-1031.  
*Salicylic acid*;  $HOC_6H_4COOH$ . (*o*-Hydroxybenzoic acid).  
*T Gloeosporium musorum* and downy mildew of tobacco; NT *Sclerotinia fructicola*. 175, 263, 267, 1213B, 1294.
- 541-551-951-1031.  
*Benzoic acid, p-hydroxy*;  $HOC_6H_4COOH$ .  
 MT mold fungi at 0.04%. 476.
- 541-551-951-1031-1037.  
*Salicylic acid, 5-alkyl*;  $R(HO)C_6H_4COOH$ .  
*T ringworm organism*. 143P.
- 541-551-951-1031-1037-1946.  
*Salicylic acid, 5-alkyl*, alkali metal salts;  $R(HO)C_6H_4COOM$ .  
*T ringworm organism*. 143P.
- 541-551-951-1031-1114.  
*Salicylic acid, barium salt*;  $(HOC_6H_4COO)_2Ba$ .  
 NT spores of *Tilletia tritici* at 2%. 1294.
- 541-551-951-1031-1118-1350.  
*Salicylic acid, bismuthyl salt*?  $Bi(C_6H_4O)_3 \cdot Bi_2O_3$ . (Bismuth subsalicylate).  
*T Sclerotinia fructicola* and downy mildew of tobacco; NT *Macrosporium sarcinaeforme*. 287, 289, 1430A.
- 541-551-951-1031-1134.  
*Salicylic acid, cadmium salt*;  $(HOC_6H_4COO)_2Cd$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1136.  
*Salicylic acid, calcium salt*;  $(HOC_6H_4COO)_2Ca$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1142.  
*Salicylic acid, copper salt*;  $(HOC_6H_4COO)_2Cu$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1142-1325.  
*Salicylic acid, basic copper salt*;  $HOC_6H_4COOCuOH$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1162.  
*Salicylic acid, iron salt*;  $(HOC_6H_4COO)_2Fe$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1166.  
*Salicylic acid, lead salt*;  $(HOC_6H_4COO)_2Pb$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1166-1325.  
*Salicylic acid, basic lead salt*;  $HOC_6H_4COOPbOH$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1172.  
*Salicylic acid, magnesium salt*;  $(HOC_6H_4COO)_2Mg$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1176.  
*Salicylic acid, mercury salt*;  $(HOC_6H_4COO)_2Hg$ .  
*T spores of Tilletia tritici*. 7, 1294.
- 541-551-951-1031-1196.  
*Salicylic acid, potassium salt*;  $HOC_6H_4COOK$ .  
*T spores of Tilletia tritici*. 1294.
- 541-551-951-1031-1218.  
*Salicylic acid, sodium salt*;  $HOC_6H_4COONa$ .  
*T spores of Tilletia tritici* and *Sclerotinia fructicola* at 1-1,000. 1294.
- 541-551-951-1031-1220.  
*Salicylic acid, strontium salt*;  $(HOC_6H_4COO)_2Sr$ .  
*T spores of Tilletia tritici*; NT *Macrosporium sarcinaeforme*. 1294.
- 541-551-951-1031-1244.  
*Salicylic acid, zinc salt*;  $(HOC_6H_4COO)_2Zn$ .  
*T several fungi at 0.08%, Tilletia tritici*, and downy mildew of tobacco. 267, 476, 1294.
- 541-551-951-1031-1177.  
*Benzoic acid, p-hydroxy*, phenylmercury salt;  $C_6H_5HgOOCCH_2OH$ ? 368P.
- 541-551-1003.  
*Lactic acid*;  $CH_3CH(OH)COOH$ . (*D*-2-Hydroxy propionic acid; *D*- $\alpha$ -hydroxypropionic acid; *sarcosilactic acid*; *paralactic acid*).  
 Injected into chestnut trees for blight control. 175, 1213B.
- 541-551-1003-1311.  
*Fluoboric acid, lactate*;  $BF_3CH_2CH(OH)COOH$ . 634P.
- 541-551-951-972-730-904-951-908-1011-1022.  
*Acridine, 1,4-diamino-8-ethoxy*, whole acid derivative;  $C_{10}H_6O_2 \cdot (H_2N)_2 \cdot (C_2H_5O)_2$ . (Chelate of 8-ethoxy-4,9-diaminoacridine). 1211P.
- 541-551-951-1021-1177.  
*Gellic acid, phenylmercury salt*;  $C_6H_5HgOOCCH_2OH$ . 368P.
- 541-551-951-1018-1176.  
*Acetic acid, 2-chloroethoxymercury salt*;  $CH_3COOCH_2CH_2OOCCH_2OH$ ? (*2*-Chloroethoxy mercury acetate).  
 Effective in preventing *Bacterium malvacearum* and *Rhizoctonia solani* on cotton seeds. 1198.
- 541-551-951-951-1011-1142.  
*Phenol, 2,4-dichloro*, copper acetate compound;  $Cl_2C_6H_3OH \cdot (CH_3COO)_2Cu$ . 362P.
- 541-551-951-951-1011-1244.  
*Phenol, 2,4-dichloro*, zinc acetate compound;  $Cl_2C_6H_3OH \cdot Zn(CH_3COO)_2$ . 362P.
- 541-551-951-951-1011-1021-1142.  
*p-Cresol, 2,3,5-trichloro*, copper acetate compound;  $Cl_3(C_6H_2)CH_2OH \cdot (CH_3COO)_2Cu$ . (Copper acetate of 2,3,5-trichloro-4-hydroxy-1-methyl-benzene). 362P.
- 541-551-951-951-1011-1021-1244.  
*p-Cresol, 2,3,5-trichloro*, zinc acetate compound;  $Cl_3C_6H_2(CH_2)OH \cdot (CH_3COO)_2Zn$ . (Zinc acetate of 2,3,5-trichloro-4-hydroxy-1-methylbenzene). 362P.
- 541-551-951-1011.  
*Acetic acid, phenoxy*;  $C_6H_5OCH_2COOH$ . (Glycolic acid, phenyl ether). 1470P.
- 541-551-951-1011-1021-1176.  
*Acetic acid, p-methoxyphenylmercury salt*;  $(CH_3OOCCH_2CH_2OOCCH_2OH)_2Hg$ . (Mercury *p*-anisylacetate). 376P.
- 541-551-951-1011-1021-1177.  
*Anisole, acetoxymercuric*;  $CH_3OOCCH_2CH_2OOCCH_2OH$ . 1236P.
- 541-551-1012-1021-1177.  
*Acetic acid, 2-methoxyethylmercuric salt*;  $CH_3COOCH_2CH_2OOCCH_2OH$ . (Methoxyethylmercuric acetate). 1263P.
- 541-551-1012-1021-1177-1214.  
*Acetic acid, 2-methoxyethylmercury salt*, + soluble glass;  $CH_3COOHgCH_2CH_2OCH_2CH_3$  + soluble glass. (Methoxyethylmercuric acetate and sol. glass). Made by causing sol. organometallic compds. of Hg to react with compds. of Si capable of reaction. 348P.
- 541-551-1013-1177-1214.  
*Acetic acid, 2-ethoxyethylmercury salt*, + soluble glass;  $CH_3COOHgCH_2CH_2OCH_2CH_3$  + soluble glass. (Ethoxyethylmercuric acetate and sol. glass). Made by causing sol. organometallic compds. of Hg to react with compds. of Si capable of reaction. 348P.
- 541-995-1003-1030-1176.  
*2-Furanacrylic acid, mercury salt*;  $[(C_4H_3O)CH:CHCOO]_2Hg$ . (Mercury furacrylate).  
*T Diplodia, Gibberella, and Botrytis* on seed corn. 1131P.
- 541-925-1021-1176.  
*2-Furac acid, mercury salt*;  $[(C_4H_3O)COO]_2Hg$ . (Mercury furate).  
*T Diplodia, Gibberella, and Botrytis* on seed corn. 1131P.
- 541-671-951-1003-1142.  
*Alanine, 2-phenyl*, copper salt;  $[C_6H_5CH_2CH(NH_2)COO]_2Cu$ . (Copper *2*-phenylalaninate).  
*T spores of Venturia inaequalis*. 905.
- 541-671-951-1021.  
*Benzoic acid, m-amino*;  $H_2NC_6H_4COOH$ .  
 FT mildew fungi in cotton. 476.
- 541-671-951-1021.  
*Benzoic acid, p-amine*;  $H_2NC_6H_4COOH$ .  
*T Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717, 728.
- 541-671-997-1142.  
*L-Leucine, copper salt*;  $[(CH_3)_2CHCH_2CH(NH_2)COO]_2Cu$ . (Copper *L*-leucinate).  
*T spores of Venturia inaequalis*. 905.
- 541-671-999-1142.  
*d-Valine, copper salt*;  $[(CH_3)_2CHCH(NH_2)COO]_2Cu$ . (Copper *d*-valinate).  
*T spores of Venturia inaequalis*. 905.
- 541-671-1003-1142.  
*Alanine, copper salt*;  $[CH_3CH(NH_2)COO]_2Cu$ . (Copper alaninate).  
*T spores of Venturia inaequalis*. 905.

- 541-851-953-1031.  
Benzoic acid, *o*-(*p*-chloroanilino)-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (3'-Chlorodiphenylamine-2-carboxylic acid).  
NT oomidia of *Sclerotinia fructicola* and *Glomerella angulata*. 878, 831.
- 541-851-953-1021.  
Benzoic acid, *o*-(*m*-chloroanilino)-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (3'-Chlorodiphenylamine-2-carboxylic acid).  
T oomidia of *Sclerotinia fructicola* and *Glomerella angulata*. 878, 831.
- 541-851-953-1021.  
Benzoic acid, *o*-(*p*-chloroanilino)-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (4'-Chlorodiphenylamine-2-carboxylic acid).  
T oomidia of *Sclerotinia fructicola* and *Glomerella angulata*. 878, 831.
- 541-851-953-1022.  
Benzoic acid, *o*-(*p*-toluino)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (2'-Methyldiphenylamine-2-carboxylic acid).  
NT oomidia of *Sclerotinia fructicola* and *Glomerella angulata*. 878, 831.
- 541-851-953-1022.  
Benzoic acid, *o*-(*p*-toluino)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (4'-Methyldiphenylamine-2-carboxylic acid).  
NT oomidia of *Sclerotinia fructicola* and *Glomerella angulata*. 878, 831.
- 541-851-951-1011-1022-1177-1214.  
Aniline, acetoxymercuri-*N,N*-dimethyl- + soluble glass;  $\text{CH}_3\text{COOHgC}_6\text{H}_4\text{N}(\text{CH}_3)_2$  + soluble glass. (Dimethylaniline-mercuric acetate and sol. glass). Made by causing sol. organometallic compds. of Hg to react with compds. of Bi capable of reaction. 348P.
- 541-730-740-951-1022-1142.  
Benzoic acid, copper nicotinate salt;  $(\text{C}_6\text{H}_4\text{N})(\text{C}_6\text{H}_7\text{NCH}_3)(\text{C}_6\text{H}_5\text{COO})_2\text{Cu}$ .  
T *Macrosporium sarcinaeforme*. 717.
- 541-730-950-1021-1142.  
Quinaldic acid, copper salt;  $[(\text{C}_6\text{H}_5\text{N})\text{COO}]_2\text{Cu}$ .  
(Copper quinaldic acid).  
NT spores of *Macrosporium sarcinaeforme*, *Venturia inaequalis*, and *Persea*. 905.
- 541-791-951-1011-1021-1177-1218.  
Merthiolate;  $\text{C}_2\text{H}_5\text{HgSC}_2\text{H}_4\text{COONa}$ ? (Sodium ethyl mercuri thiosalicylate).  
T citrus stem-end rot. 856.
- 541-791-951-1011-1177.  
Acetic acid, mercapto-, phenylmercury salt;  $\text{C}_6\text{H}_5\text{HgOOCCH}_2\text{SH}$ ? (Thioglycolic acid, organomercury salt) 368P.
- 541-791-952-1021-1177.  
Salicylic acid, thio-, phenylmercury salt;  $\text{C}_6\text{H}_5\text{HgOOCCH}_2\text{SH}$  368P.
- 541-825-950-1011-1177.  
Thianaphthene, acetoxymercuri-;  $\text{CH}_3\text{COOHgC}_6\text{H}_5\text{S}$ .  
Seed disinfectant 789, 1178.
- 541-825-1011-1177-1825.  
Thiophene, 2-acetoxymercuri-5-hydroxymercuri-;  $\text{CH}_3\text{COOHgC}(\text{C}_6\text{H}_5\text{S})\text{HgOH}$ .  
Seed disinfectant. 789, 1178.
- 541-841-1011-1142.  
Acetic acid, bromo-, copper salt;  $(\text{BrCH}_2\text{COO})_2\text{Cu}$ .  
(Copper monobromoacetate).  
NT bunt spores. 1090.
- 541-851-951-1011-1178.  
Acetic acid, *p*-chlorophenyl-, mercury salt;  $(\text{ClC}_6\text{H}_4\text{CH}_2\text{COO})_2\text{Hg}$ . (Mercury *p*-chlorophenylacetate). 376P.
- 541-851-951-1011-1177.  
Acetic acid, *o*-chlorophenylmercury salt;  $\text{ClC}_6\text{H}_4\text{HgOOCCH}_3$ . (*o*-Chloro phenyl mercuri acetate). 1238P.
- 541-851-951-1021.  
Benzoic acid, *o*-chloro-;  $\text{ClC}_6\text{H}_4\text{COOH}$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 541-851-951-1031.  
Benzoic acid, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{COOH}$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 541-851-1003.  
Propionic acid,  $\alpha$ -chloro-;  $\text{CH}_3\text{CHClCOOH}$ . 708.
- 541-851-1003.  
Propionic acid,  $\beta$ -chloro-;  $\text{ClCH}_2\text{CH}_2\text{COOH}$ . 708.
- 541-851-1011.  
Acetic acid, chloro-;  $\text{ClCH}_2\text{COOH}$ . 708.
- 541-851-1011-1142.  
Acetic acid, chloro-, cupric salt;  $(\text{ClCH}_2\text{COO})_2\text{Cu}$ .  
(Cupric hypochloroacetate).  
T bunt spores; inhibits seed germination. 1090.
- 541-851-1011-1211.  
Fluoboric acid, chloroacetato-;  $\text{BF}_3\text{ClCH}_2\text{COOH}$ . 634P.
- 541-852-951-1021.  
Benzoic acid, 3,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{COOH}$ .  
T *Macrosporium sarcinaeforme*. 717.
- 541-852-1011-1142.  
Acetic acid, dichloro-, copper salt;  $(\text{Cl}_2\text{CHCOO})_2\text{Cu}$ .  
(Copper dichloroacetate).  
MT bunt spores. 1090.
- 541-853-1011-1142.  
Acetic acid, trichloro-, copper salt;  $(\text{Cl}_3\text{CCOO})_2\text{Cu}$ .  
(Copper trichloroacetate).  
NT bunt spores. 1090.
- 541-851-951-1011-1177.  
Acetic acid, *p*-fluorophenylmercury salt;  $\text{FC}_6\text{H}_4\text{HgOOCCH}_3$ . (*p*-Fluoro phenyl mercuri acetate). 1238P.
- 541-851-953.  
Stearic acid, fluoro-;  $\text{FCH}_2(\text{CH}_2)_{10}\text{COOH}$ . (Mono-fluorostearic acid). 345P.
- 541-851-953-1030-1218.  
Oleic acid, fluoro-, sodium salt;  $\text{FC}_{17}\text{H}_{33}\text{COONa}$ . 345P.
- 541-851-953-1126.  
Stearic acid, fluoro-, calcium salt;  $(\text{FC}_{17}\text{H}_{33}\text{COO})_2\text{Ca}$ .  
(Calcium salt of monofluorostearic acid). 345P.
- 541-851-990.  
Hendecanoic acid, fluoro-;  $\text{FC}_{11}\text{H}_{21}\text{COOH}$ . (Mono-fluoroundecanoic acid). 345P.
- 541-851-990-1246.  
Hendecanoic acid, fluoro-, salt. (Salt of monofluoroundecanoic acid). 345P.
- 541-852-953.  
Stearic acid, difluoro-;  $\text{F}_2\text{C}_{17}\text{H}_{33}\text{COOH}$ . 345P.
- 541-852-953-1126.  
Stearic acid, difluoro-, calcium salt;  $(\text{F}_2\text{C}_{17}\text{H}_{33}\text{COO})_2\text{Ca}$ . 345P.
- 541-871-1003.  
Propionic acid,  $\beta$ -iodo-;  $\text{ICH}_2\text{CH}_2\text{COOH}$ . (3-Iodo-propionic acid).  
Prevents mold growth. 110, 283, 706, 708, 1391.
- 541-871-1011.  
Acetic acid, iodo-;  $\text{ICH}_2\text{COOH}$ . (Mono-iodo-acetic acid).  
A 0.001 M solution at a pH of about 3 suppresses completely both alcoholic fermentation and the formation of acids in *Aspergillus niger* cultures. 0.0004 and 0.0001 M solutions at the same pH suppress completely alcoholic fermentation but do not affect the formation of citric and oxalic acids. 49, 110.
- 541-951-1003.  
Hydrocinnamic acid;  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{COOH}$ . (Phenyl-propionic acid).  
HT mold fungi at 0.2% and MT at 0.1%. 476.
- 541-951-1003-1030.  
Cinnamic acid;  $\text{C}_6\text{H}_5\text{CH}=\text{CHCOOH}$ .  
MT mold fungi at 0.1% and ST at 0.05%. 476.
- 541-951-1011.  
Acetic acid, phenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{COOH}$ .  
HT mold fungi at 0.3% and MT at 0.02%. 476.
- 541-951-1011-1021-1176.  
Acetic acid, tolyl-, mercury salt;  $(\text{CH}_3\text{C}_6\text{H}_4\text{CH}_2\text{COO})_2\text{Hg}$ . (Mercury tolylacetate). 376P.
- 541-951-1011-1176.  
Acetic acid, phenyl-, mercury salt;  $(\text{C}_6\text{H}_5\text{CH}_2\text{COO})_2\text{Hg}$ . (Mercury phenylacetate). 376P.
- 541-951-1011-1177.  
Acetic acid, phenylmercury salt;  $\text{C}_6\text{H}_5\text{HgOOCCH}_3$ . (Phenyl mercuric acetate).  
T wood-destroying fungi, *Fomes annosus*, and *Ceratostomella pilifera*; seed disinfectant. 63, 653, 785P.
- 541-951-1021.  
Benzoic acid;  $\text{C}_6\text{H}_5\text{COOH}$ . (Benzenecarboxylic acid; phenylformic acid)  
T nearly all mycoses, wood-destroying fungi. 60, 178, 283, 796P, 1213B.

- 541-951-1031-1142.  
Benzoic acid, copper salt;  $(C_6H_5COO)_2Cu \cdot 2H_2O$ .  
(Copper benzoate dihydrate).  
T *Macrosporium sarcinaeforme*. 717.
- 541-951-1311.  
Fluoboric acid, benzoate-;  $BF_3 \cdot C_6H_5COOH$ . 634P.
- 541-953-1030.  
Oleic acid;  $C_{18}H_{33}OOH$ . (9-Octadecenoic acid).  
NT at 1%. 903.
- 541-953-1030-1143.  
Oleic acid, copper salt;  $(C_{18}H_{33}OO)_2Cu$ .  
Used as preservative for cordage. 1096.
- 541-953-1030-1311.  
Fluoboric acid, oleate-;  $BF_3 \cdot C_{18}H_{33}OOH$ . 634P.
- 541-955.  
Palmitic acid;  $C_{16}H_{31}OOH$ .  
T wood-destroying fungi. 41.
- 541-955-1011-1177.  
Palmitic acid, ethylmercury salt;  $C_{16}H_{31}HgOOCCH_3$ .  
(Ethyl mercury palmitate).  
T as spray. 1402P.
- 541-955-1218.  
Palmitic acid, sodium salt;  $C_{16}H_{31}COONa$ .  
T wood-destroying fungi. 41.
- 541-957.  
Myristic acid;  $C_{14}H_{27}OOH$ . (Tetradecanoic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-957-1218.  
Myristic acid, sodium salt;  $C_{14}H_{27}COONa$ .  
T wood-destroying fungi. 41.
- 541-958.  
Tridecanoic acid;  $C_{13}H_{25}OOH$ . (n-Tridecoic acid; n-tridecyllic acid).  
Prevents mold growth. 706.
- 541-959.  
Lauric acid;  $C_{12}H_{23}OOH$ . (Dodecanoic acid).  
T wood-destroying fungi; prevents mold growth. 41, 706.
- 541-959-1218.  
Lauric acid, sodium salt;  $C_{12}H_{23}COONa$ .  
T wood-destroying fungi. 41.
- 541-990.  
Hendecanoic acid;  $C_{11}H_{21}OOH$ . (Undecanoic acid; n-undecylic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-990-1030.  
10-Hendecanoic acid;  $CH_3 \cdot CH(CH_3)_9 \cdot COOH$ .  
Prevents mold growth. 706.
- 541-990-1218.  
Hendecanoic acid, sodium salt;  $C_{11}H_{21}COONa$ .  
(Sodium undecylate).  
T wood-destroying fungi. 41.
- 541-991.  
Capric acid;  $C_{10}H_{19}OOH$ . (Decanoic acid; n-capric acid; n-decoic acid; n-decyllic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-991-1218.  
Capric acid, sodium salt;  $C_{10}H_{19}COONa$ .  
T wood-destroying fungi. 41.
- 541-992.  
Pelargonic acid;  $C_9H_{17}OOH$ . (Nonanoic acid; n-nonylic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-992-1218.  
Pelargonic acid, sodium salt;  $C_9H_{17}COONa$ .  
T wood-destroying fungi. 41.
- 541-993.  
Caprylic acid;  $C_8H_{15}OOH$ . (Octanoic acid; n-octoic acid; n-octylic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-993-1218.  
Caprylic acid, sodium salt;  $C_8H_{15}COONa$ .  
T wood-destroying fungi. 41.
- 541-995.  
Enanthic acid;  $C_8H_{15}OOH$ . (Heptanoic acid; enanthic acid; oenanthic acid; n-heptoic acid; n-heptylic acid).  
Enanthic acid, copper salt;  $[OOCCH_2CH(NH_3)]_2$ .  
41, 706.
- 541-995-1218.  
Enanthic acid, sodium salt;  $C_8H_{15}COONa$ . (Sodium heptylate).  
T wood-destroying fungi. 41.
- 541-997.  
Caproic acid;  $C_6H_{11}OOH$ . (Hexanoic acid; n-hexolic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-997-1218.  
Caproic acid, sodium salt;  $C_6H_{11}COONa$ .  
ST wood-destroying fungi. 41.
- 541-999.  
Valeric acid;  $C_5H_9OOH$ . (Pentanoic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-999.  
Isovaleric acid;  $(CH_3)_2CHCH_2COOH$ . (3-Methylbutanoic acid; isopropylacetic acid).  
Prevents mold growth. 706.
- 541-999.  
Butyric acid, n-methyl-;  $CH_3CH_2CH(CH_3)COOH$ . (Methylethylacetic acid).  
Prevents mold growth. 706.
- 541-999.  
Pivalic acid;  $(CH_3)_3CCOOH$ . (Trimethylacetic acid; 2,2-dimethylpropionic acid).  
Prevents mold growth. 706.
- 541-999-1218.  
Valeric acid, sodium salt;  $C_5H_9COONa$ .  
ST wood-destroying fungi. 41.
- 541-1001.  
Butyric acid;  $C_4H_7OOH$ . (Butanoic acid; ethylacetic acid).  
Prevents mold growth; T wood-destroying fungi, *Gloeosporium musarum*, and *Fusarium cubense*. 41, 706, 1420A.
- 541-1001.  
Isobutyric acid;  $(CH_3)_2CHCOOH$ . (2-Methylpropanoic acid; dimethylacetic acid; n-methylpropionic acid).  
Prevents mold growth. 706, 1510.
- 541-1001-1011-1177.  
Acetic acid, butylmercury salt;  $CH_3COOHg(CH_2)_3CH_3$ . (Butyl mercury acetate). 370P.
- 541-1001-1030.  
Crotonic acid;  $CH_3CH=CHCOOH$ .  
Prevents mold growth. 706
- 541-1001-1218.  
Butyric acid, sodium salt;  $C_4H_7COONa$ .  
ST wood-destroying fungi. 41
- 541-1003.  
Propionic acid;  $C_3H_5OOH$ . (Propanoic acid; methylacetic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-1003-1126.  
Propionic acid, calcium salt;  $(CH_3CH_2COO)_2Ca$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 728.
- 541-1003-1218.  
Propionic acid, sodium salt;  $CH_3CH_2COONa$ .  
Used for the prevention of mold in bread; NT *Macrosporium sarcinaeforme* and wood-destroying fungi. 41, 289, 910.
- 541-1011.  
Acetic acid;  $CH_3COOH$ . (Ethanoic acid).  
Prevents mold growth; injected into chestnut trees for blight control; T wood-destroying fungi, *Trichophyton fungus*, *Gloeosporium musarum*, and *Fusarium cubense*. 41, 178, 233, 706, 1213B, 1420A.
- 541-1011-1106.  
Acetic acid, aluminum salt;  $Al(OOCC_2H_5)_3$ .  
T *Sclerotinia fructicola* and *Alteraria solani*. 916A.
- 541-1011-1126.  
Acetic acid, calcium salt;  $Ca(OOCC_2H_5)_2$ .  
ST *Fomes annuus*. 59.
- 541-1011-1142.  
Acetic acid, cupric salt;  $(CH_3COO)_2Cu$ . (Cupric acetate, neutral).  
T hunt spores and *Fusarium cubense*. 1096.



- 541-1011-1142-1261.  
Copper aceto-arsenite;  $(\text{CH}_3\text{COO})_2\text{Cu} \cdot 3\text{Cu}(\text{AsO}_2)_2$ .  
(Paris green).  
T wheat bunt. 51, 246.
- 541-1011-1218.  
Acetic acid, sodium salt;  $\text{CH}_3\text{COONa}$ .  
ST wood-destroying fungi. 41.
- 541-1011-1240.  
Acetic acid, granium salt.  
T *Pomes amarus*. 59.
- 541-1011-1244.  
Acetic acid, zinc salt;  $\text{Zn}(\text{OOCCH}_3)_2$ .  
T several species wood-destroying fungi. 60.
- 541-1011-1211.  
Fluoboric acid, acetato-;  $\text{BF}_3 \cdot \text{CH}_3\text{COOH}$ . 634P.
- 541-1012-1177.  
Acetic acid, ethylmercury salt;  $\text{CH}_3\text{COOHgCH}_2\text{CH}_3$ .  
(Ethyl mercuri acetate). 302P, 370P.
- 541-1021.  
Formic acid;  $\text{HCOOH}$ . (Methanoic acid).  
Prevents mold growth; T wood-destroying and many other fungi. 41, 175, 706, 1213B.
- 541-1021-1142.  
Formic acid, copper salt;  $(\text{HCOO})_2\text{Cu}$ .  
MT bunt spores. 1096.
- 541-1021-1218.  
Formic acid, sodium salt;  $\text{HCOONa}$ .  
ST wood-destroying fungi. 41.
- 541-1045-1176.  
Organic acid, mercury salt;  $(\text{RCOO})_2\text{Hg}$ . 786P.
- 541-1045-1177-1246.  
Organic acid, mercurised, alkali salts. (Mercurised organic carboxylic acids, alkali salts of). 786P.
- 542-582-591-730-950-1011-1025-1030.  
Quinine, bis(salicylic acid, o-carboxyphenyl) compound?;  $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_8$ .  $(\text{HOC}_6\text{H}_4\text{COOC}_6\text{H}_4\text{COOH})_2$ ?  
(Quinine bi salicyl salicylate).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 542-582-1001-1110-1196.  
Tartar emetic;  $\text{K}_2\text{H}_2\text{O}_4$ . (Potassium antimonyl tartrate).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 542-582-1001-1142.  
Tartaric acid, copper salt;  $[\text{OOCCH}(\text{OH})\text{CH}(\text{OH})-\text{COO}]_2\text{Cu}$ . (Copper tartrate).  
MT bunt spores. 1096.
- 542-582-1001-1196-1218.  
Tartaric acid, potassium sodium salt;  $\text{KNaC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$ . (Sodium potassium tartrate; Rochelle salt). 907P.
- 542-582-1001-1236.  
Tartaric acid, titanium acid salt;  $[\text{HOOCCH}(\text{OH})-\text{CH}(\text{OH})\text{COO}]_2\text{Ti}$ . (Titanium acid tartrate).  
NT chestnut blight. 175, 1363A.
- 542-582-730-950-1011-1023-1030.  
Cinchonine, salicylic acid compound;  $\text{C}_{19}\text{H}_{21}\text{NO}_8$ .  $(\text{HOC}_6\text{H}_4\text{COOH})_2$ . (Cinchonine salicylate).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 542-584-997-1142.  
Mucic acid, copper salt;  $[\text{CH}(\text{OH})_2\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-588-1001-1142-1218.  
Malic acid, copper sodium salt;  $\text{NaCuC}_4\text{H}_5\text{O}_6 \cdot 4\text{H}_2\text{O}$ . (Sodium cuprimalate).  
T spores of *Venturia inaequalis*. 905.
- 542-591-1012-1021-1177.  
Oxalic acid, 2-methoxyethylmercury salt;  $(\text{CH}_3\text{OCH}_2-\text{CH}_2\text{HgOOC})_2$ . (Methoxyethylmercuric oxalate). 1263P.
- 542-668-953-1023.  
Diphenylguanidine, phthalic acid compound;  $(\text{C}_6\text{H}_5-\text{NH})_2\text{C}=\text{N}+\text{H}(\text{OOC})_2\text{C}_6\text{H}_4$ . (Diphenyl guanidine phthalate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 542-671-999-1142.  
Glutamic acid, copper salt;  $[\text{OOCCH}_2\text{CH}_2\text{CH}(\text{NH}_2)-\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-671-1001-1142.  
Aspartic acid, copper salt;  $[\text{OOCCH}_2\text{CH}(\text{NH}_2)-\text{COO}]_2\text{Cu}$ .
- T spores of *Venturia inaequalis*. 905.
- 542-851-1022.  
Phthalic acid;  $\text{C}_6\text{H}_4(\text{OOH})_2$ .  
MT *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 542-951-1022-1142.  
Phthalic acid, copper salt;  $\text{C}_6\text{H}_4(\text{COO})_2\text{Cu}$ . (Copper phthalate).  
T spores of *Venturia inaequalis*. 905.
- 542-991-1142.  
Sebacic acid, copper salt;  $[\text{OOC}(\text{CH}_2)_8\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-997-1142.  
Adipic acid, copper salt;  $[\text{OOC}(\text{CH}_2)_4\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-1001.  
Succinic acid;  $\text{HOOCCH}_2\text{CH}_2\text{COOH}$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 542-1001-1030.  
Fumaric acid;  $\text{HOOCCH}:\text{CHCOOH}$ .  
ST *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 542-1004-1011-1177.  
Oxalic acid, propylmercury salt;  $(\text{C}_3\text{H}_7\text{HgOOC})_2$ . (Propylmercurioxalate). 302P.
- 542-1011-1114.  
Oxalic acid, barium salt;  $\text{BaC}_2\text{O}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria splani*. 916A.
- 542-1011-1130.  
Oxalic acid, cerous salt;  $\text{Ce}_2(\text{C}_2\text{O}_4)_3 \cdot 9\text{H}_2\text{O}$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 542-1011-1142.  
Oxalic acid, copper salt;  $(\text{COO})_2\text{Cu}$ .  
HT walnut blight; T bunt spores. 961, 1096.
- 542-1012-1177.  
Oxalic acid, ethylmercury salt;  $(\text{C}_2\text{H}_5\text{HgOOC})_2$ . (Ethyl mercury oxalate).  
T several species wood-destroying fungi. 655.
- 543-581-997.  
Citric acid;  $(\text{COOH})\text{CH}_2\text{C}(\text{OH})(\text{COOH})\text{CH}_2\text{COOH}$ . (2-Hydroxy-1, 2, 3-propanetricarboxylic acid;  $\beta$ -hydroxy tricarballic acid).  
Injected into chestnut trees for blight control. 175, 1213B.
- 543-581-997-1142.  
Citric acid, copper salt;  $[\text{OOCCH}_2\text{C}(\text{OH})(\text{COO}-)\text{CH}_2\text{COO}]_2\text{Cu}$ . (Cupric citrate).  
T bunt spores. 1096.
- 543-582-591-730-950-1003-1011-1022-1030.  
Quinine, citric acid compound;  $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_8 \cdot \text{C}_6\text{H}_5\text{O}_7$ . (Quinine citrate).  
ST *Macrosporium sarcinaeforme*. 717.
- 551-571-1001-1011.  
Butyric acid,  $\alpha$ -oxo-, ethyl ester;  $\text{CH}_3\text{CH}_2\text{COOOC}_2\text{H}_5$ . (Ethyl oxy butyrate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-591-951-1001-1011-1021.  
Salicylic acid, butoxyethyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_2\text{H}_4-\text{OC}_2\text{H}_5$ . (Butoxyethyl salicylate).  
MT downy mildew of tobacco. 287.
- 551-581-951-993-1021.  
Salicylic acid, sec-octyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_8\text{H}_{17}$ .  
T organisms of ringworm type. 183P.
- 551-581-951-999-1021.  
Salicylic acid, amyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_5\text{H}_{11}$ .  
T several species wood-destroying fungi. 655.
- 551-581-951-1001.  
Salicylic acid, isobutyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_4\text{H}_9$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-951-1001-1021.  
Benzoic acid, p-hydroxy-, butyl ester;  $\text{HOC}_6\text{H}_4-\text{COOC}_4\text{H}_9$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-951-1003-1021.  
Benzoic acid, p-hydroxy-, propyl ester;  $\text{HOC}_6\text{H}_4-\text{COOC}_3\text{H}_7$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-951-1022.  
Salicylic acid, methyl ester;  $\text{HOC}_6\text{H}_4\text{COOCH}_3$ .  
NT *Macrosporium sarcinaeforme*. 289.



- 551-552-951-1022.  
Benzoic acid, *p*-hydroxy-, methyl ester;  $\text{HOC}_6\text{H}_4\text{-COOCH}_3$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 551-551-952-1021.  
Salicylic acid, phenyl ester,  $\text{HOC}_6\text{H}_4\text{COOC}_6\text{H}_5$ . (Nalol).  
T *Sclerotinia fructicola*; MT mold fungi at 0.06%; NT *Macrosporium sarcinaeforme*. 289, 478.
- 551-551-952-1022.  
Salicylic acid, benzyl ester;  $\text{HOC}_6\text{H}_4\text{COOCH}_2\text{C}_6\text{H}_5$ .  
T downy mildew of tobacco; NT *Sclerotinia fructicola*. 287, 1430A.
- 551-551-952-1022.  
Benzoic acid, *p*-hydroxy-, benzyl ester;  $\text{HOC}_6\text{H}_4\text{-COOCH}_2\text{C}_6\text{H}_5$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 551-571-951-1022.  
Anthranilic acid, methyl ester;  $\text{H}_2\text{NC}_6\text{H}_4\text{COOCH}_3$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 551-606-730-740-952-1011-1021-1030-1291.  
Nicotinium chloride, oleyloxyethyl-;  $(\text{C}_6\text{H}_7\text{NCH}_2\text{-})_2\text{C}_6\text{H}_4\text{N}(\text{Cl})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{18}$ . (Oleyloxyethylnicotinium chloride). 1334P.
- 551-606-730-950-952-1011-1276.  
Quinolium bromide, 1-stearoyloxyethyl-;  $\text{C}_6\text{H}_4\text{N}(\text{Br})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{36}$ . (Stearoyloxyethylquinolium bromide). 1334P.
- 551-606-730-950-952-1011-1021-1333.  
Acridinium iodide, 10-methyl-10-palmitoyloxyethyl-;  $\text{C}_{12}\text{H}_{25}\text{N}(\text{CH}_3)(\text{I})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{31}$ . (Palmitoyloxyethyl-*N*-methylhydroacridinium iodide). 1334P.
- 551-606-730-952-1003-1033-1276.  
Pyridinium bromide, 1-(3-linoleyloxypropyl)-;  $\text{C}_6\text{H}_5\text{N}(\text{Br})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{31}$ . (Linoleyloxypropylpyridinium bromide). 1334P.
- 551-606-730-952-1011-1021-1291.  
Picolinium chloride, 1-stearoyloxyethyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{N}(\text{Cl})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{36}$ . (Stearoyloxyethylpicolinium chloride). 1334P.
- 551-701-951-990-1011-1032.  
2,4-Pentadienoic acid, 4-amyl-2-cyano-5-phenyl-, ethyl ester,  $\text{C}_6\text{H}_5\text{OOC}(\text{CN})\text{CH}(\text{C}_6\text{H}_5)\text{-CHC}(\text{C}_6\text{H}_5)_2$ . *a*-*n*-Amyl cinnamal ethyl cyanoacetate). 664P.
- 551-701-951-993-1001-1030.  
Cinnamic acid, *a*-cyano-, octyl ester;  $\text{C}_8\text{H}_{17}\text{OOC}(\text{CN})\text{-CHC}_6\text{H}_5$ . (Benzal octyl cyanoacetate). 665P.
- 551-730-950-951-1021.  
8-Quinolol, benzoate;  $\text{C}_6\text{H}_5\text{COOC}_6\text{H}_4\text{N}$ . (8 Hydroxy-quinoline benzoate).  
T *Macrosporium sarcinaeforme* 717.
- 551-730-950-951-1021.  
Quinolol, benzoate, CU;  $\text{C}_6\text{H}_5\text{COOC}_6\text{H}_4\text{N}$ . (Hydroxy quinoline benzoate).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-841-1003-1027.  
Propionic acid, *a*-bromo-, alkyl esters;  $\text{CH}_3\text{CH}_2(\text{Br})\text{-COOR}$ . 1181
- 551-841-1003-1027.  
Propionic acid,  $\beta$ -bromo-, alkyl esters;  $\text{BrCH}_2\text{CH}_2\text{-COOR}$ . 1181
- 551-843-951-1011.  
Phenol, tribromo-, acetate, CU;  $\text{Br}_3\text{C}_6\text{H}_2\text{OOCCH}_3$ . (Acetyltribromophenol).  
HT mold fungi at 0.01-0.02%. 476.
- 551-851-951-1011.  
Acetic acid, chloro-, cyclohexyl ester;  $\text{CH}_3\text{ClCOOC}_6\text{H}_{11}$ . (Cyclo-hexyl monochloroacetate).  
T spores of *Aspergillus flavus*. 1098P.
- 551-851-950-1011.  
Acetic acid, chloro-, isooctyl ester,  $\text{CH}_3\text{ClCOO}(\text{CH}_2)_7\text{-CH}(\text{CH}_3)_2$ . (Isooctyl monochloroacetate).  
T spores of *Aspergillus flavus*. 1085P.
- 551-851-1003-1027.  
Propionic acid,  $\beta$ -chloro-, alkyl esters;  $\text{ClCH}_2\text{CH}_2\text{-COOR}$ . 1181.
- 551-851-1011-1021.  
Acetic acid, chloro-, methyl ester;  $\text{CH}_3\text{ClCOOCH}_3$ . (Methyl ester of monochloroacetic acid).  
Seriously impairs germination of cereal seeds. 1182P. 1810.
- 551-851-1012.  
Acetic acid, chloro-, ethyl ester;  $\text{CH}_3\text{ClCOOCH}_2\text{C}_6\text{H}_5$ . (Ethyl monochloroacetate). 1182P.
- 551-852-951-1021.  
Phenol, 2,4-dichloro-, formate;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OOCCH}_3$ . 362P.
- 551-852-1011-1027.  
Acetic acid, dichloro-, alkyl esters;  $\text{Cl}_2\text{HCOOOR}$ . 1181.
- 551-852-951-1011.  
Phenol, 2,4,5-trichloro-, acetate;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OOCCH}_3$ . (2,4,5-Trichlorophenol acetate). 365P.
- 551-852-951-1011.  
Phenol, 2,4,6-trichloro-, acetate;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OOCCH}_3$ . (2,4,6-Trichlorophenol acetate). 365P.
- 551-852-951-1012.  
Benzyl alcohol, *a*-trichloromethyl-, acetate;  $\text{Cl}_3\text{COCH}(\text{C}_6\text{H}_5)\text{OOCCH}_3$ . (Trichloromethylphenylcarbinol acetate).  
Paracetide. 851P.
- 551-852-951-1022.  
*p*-Cresol, 2,3,6-trichloro-, formate;  $\text{Cl}_3\text{C}_6\text{H}(\text{CH}_3)\text{-OOCCH}_3$ . (Formate of 2,3,6-trichloro-4-hydroxy-1-methylbenzene). 362P.
- 551-852-1001-1011.  
2-Propanol, 2-trichloromethyl-, acetate;  $\text{Cl}_3\text{CO}(\text{CH}_3)_2\text{OOCCH}_3$ . (Acetone-chloroform acetate; tertiary trichlorobutyl acetate). 851P.
- 551-852-1003-1011.  
2-Propanol, 1,1,1-trichloro-, acetate;  $\text{Cl}_3\text{CCH}(\text{CH}_3)\text{-OOCCH}_3$ . (Trichloroisopropyl acetate). 851P.
- 551-852-1011-1027.  
Acetic acid, trichloro-, alkyl esters;  $\text{Cl}_3\text{COOOR}$ . 1181.
- 551-854-951-1012.  
Benzyl alcohol, *p*-chloro-*a*-trichloromethyl-, acetate;  $(\text{Cl}_3\text{C})\text{CH}(\text{C}_6\text{H}_4\text{Cl})\text{OOCCH}_3$ . (Trichloromethyl-*p*-chlorophenylcarbinol acetate). (From  $\text{PhCl}$ ,  $\text{AlCl}_3$  and Chloral and subsequent acetylation).  
Paracetide. 851P.
- 551-854-1001-1011.  
2-Propanol, 2-trichloromethyl-, chloroacetate;  $\text{CH}_3\text{-ClCOO}(\text{CH}_3)_2\text{OOCCH}_3$ . (Acetonechloroform monochloroacetate). 851P.
- 551-952-1011-1022.  
*o*-Toluic acid, *a*-phenyl-, ethyl ester;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{-OOCCH}_2\text{C}_6\text{H}_5$ . (Ethyl *o*-benzyl benzoate).  
NT *Sclerotinia fructicola* and *Macrosporium sarcinaeforme*. 289.
- 551-952-1022.  
Benzoic acid, benzyl ester;  $\text{C}_6\text{H}_5\text{OOCCH}_2\text{C}_6\text{H}_5$ . (Benzyl benzoate). 289.
- 551-959-1021.  
Formic acid, amyl ester;  $\text{C}_5\text{H}_{11}\text{OOCH}$ . (Pentylmethanoate).  
T *Trichoderma lignorum*. 804
- 551-999-1021.  
Formic acid, isooctyl ester;  $\text{C}_8\text{H}_{17}\text{OOCH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-592-951-1002-1012-1022.  
Phthalic acid, di-2-butoxyethyl ester;  $\text{C}_6\text{H}_4(\text{OOCCH}_2\text{CH}_2\text{OC}_4\text{H}_9)_2$ . (Dibutoxy ethyl phthalate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-592-951-1012-1024.  
Phthalic acid, di-3-methoxyethyl ester;  $\text{C}_6\text{H}_4(\text{OOCCH}_2\text{CH}_2\text{OCH}_3)_2$ . (Dimethoxy ethyl phthalate). 289.
- 552-592-951-1014-1022.  
Phthalic acid, di-2-ethoxyethyl ester;  $\text{C}_6\text{H}_4(\text{OOCCH}_2\text{CH}_2\text{OC}_2\text{H}_5)_2$ . (Diethoxy ethyl phthalate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-606-952-1003-1011-1022-1225-1246.  
Lecithin;  $\text{C}_{17}\text{H}_{33}\text{OOCCH}_2\text{CH}(\text{OOCCH}_2\text{H}_{11})\text{CH}_2\text{OP}(\text{O})(\text{OH})\text{OCH}_2\text{CH}_2\text{N}(\text{CH}_3)_3$ .  
Seed disinfectant. 185P.
- 552-924-1012-1021.  
1,4-Naphthalemediol, 2-methyl-, diacetate;  $\text{C}_{10}\text{H}_6(\text{CH}_3)(\text{OOCCH}_3)_2$ . (2 Methyl, 1-4 naphthoquinone diacetate).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 552-951-950-1022.  
Phthalic acid, dioctyl ester;  $\text{C}_6\text{H}_4(\text{OOCCH}_2\text{H}_{17})_2$ .

- NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
552-551-1000-1023.  
Phthalic acid, diamyl ester;  $C_5H_4(OOOC_5H_{11})_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
553-951-1003-1023.  
Phthalic acid, dibutyl ester;  $C_5H_4(OOOC_4H_9)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
553-951-1012-1023.  
Phthalic acid, diethyl ester;  $C_5H_4(OOOC_2H_5)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
553-953-1022.  
Phthalic acid, diphenyl ester;  $C_5H_4(OOOC_6H_5)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
553-991-1002.  
Sebacic acid, dibutyl ester;  $C_8H_{17}OOCC_4H_9COOC_4H_9$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
553-553-953-1003-1030.  
Ricinolesin;  $[CH_2(CH_2)_7CH(OH)CH_2CH:CH(CH_3)_2COO]_2C_2H_5$ . (Triricinolesin; glycerol triricinolesate). NT at 1%. 902.  
553-951-951-1013.  
Phthalic acid, carboxymethyl ethyl ester;  $C_5H_4(COOC_2H_5)COOCH_2COOC_2H_5$ . (Ethyl phthalyl ethyl glycolate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
553-953-1003-1030.  
Olein;  $(C_{17}H_{33}COO)_3C_2H_5$ . (Triolein; glycerol trioleate; glyceryl oleate).  
T at 1% but caused injury. 902.  
553-1002-1003.  
Butyrin;  $(CH_3CH_2CH_2COO)_3C_2H_5$ . (Tributyryl; glycerol tributyrate).  
T at 1% but caused injury. 902.  
561-581-591-951-1011-1021.  
Bourbonal;  $HOOC_6H_4(CHO)OC_6H_5$ . (Ethylvanillin).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
561-581-591-951-1022.  
Vanillin;  $CH_3OC_6H_4(OH)CHO$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
561-581-1001.  
Aldol;  $CH_3CHOHCH_2CHO$ . (Acetalol;  $\beta$ -hydroxybutyraldehyde).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
561-588-953-1021-1177.  
Benzaldehyde, m-hydroxy-, phenylmercury salt;  $C_6H_4H_2OC_6H_4CHO?$ . (m-Hydroxybenzaldehyde, organomercury salt). 363P.  
561-625-1021.  
2-Furaldehyde;  $C_4H_4OCHO$ . (Furfural).  
T *Sclerotinia fructicola* and T *Fusarium cubense* at 3%; MT several species wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 289, 655, 1430A.  
561-583-1011.  
Chloral;  $CCl_3CHO$ . (Trichloroethanal; trichloroacetaldehyde).  
Seed disinfectant. 183P.  
561-951-1021.  
Benzaldehyde;  $C_6H_5CHO$ .  
T wood-destroying fungi but too volatile as wood preservative; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289.  
561-951-1023.  
Tolualdehyde, CU;  $CH_3C_6H_4CHO$ . (Tolyl aldehyde).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
561-1001-1030.  
Crotonaldehyde;  $CH_3CH:CHCHO$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.  
561-1011.  
Acetaldehyde;  $CH_3CHO$ . (Ethanal; acetic anhydride; aldehyde).  
Protects oranges from decay but causes injury to rind of fruit. 904.  
561-1021.  
Formaldehyde;  $HCHO$ .  
T many species fungi. 175, 263, 289, 770, 804, 879P, 1213E.  
561-1021.  
Formaldehyde (with chromium oxide and  $\beta$ -naphthol). 178P, 1432.  
561-1021.  
Paraformaldehyde;  $(CH_2O)_n \cdot H_2O$ .  
T *Fusarium cubense*. 1430A.  
571-582-625-950-952.  
Phenolphthalein, mercury salt. 204P.  
571-620-950.  
Xanthone;  $O:(C_6H_5)_2$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.  
571-620-950.  
Coumarin;  $O:(C_6H_5)_2$ . (1,3-Benzopyrone).  
NT *Macrosporium sarcinaeforme*. 289.  
571-671-700-1291.  
p-Quinonimine, 2-amino-, hydrochloride;  $O:C_6H_4-(NH)NH_2 \cdot HCl$ .  
Seed disinfectant. 367P.  
571-681-851-951-1011-1022.  
Acetophenone, a-chloro-, p-dimethylamino-;  $CH_3COOC_6H_4N(CH_3)_2$ . (4-Chloroacetamidomethylaniline). 892P.  
571-695-953-1003-1024-1291.  
Ammonium chloride, 2-oxotrimethylenebis [dimethyl-octadecyl];  $OC(CH_3)_2N(CH_3)(CH_2)_8C_{12}H_{25}$ . 349P.  
571-700-951.  
Quinonimines;  $HN:C_6H_4:O?$  (Quinonimides). 86P.  
571-730-851-951-1003.  
Propiophenone, chloro- $\beta$ -1-piperidyl-;  $ClC_6H_4COCH_2CH_2(NC_5H_{10})$ . (a-Chlorobenzoyl  $\beta$ -piperidino ethane). 719P.  
571-730-951-1003.  
Propiophenone,  $\beta$ -1-piperidyl-;  $C_6H_5COCH_2CH_2(NC_5H_{10})$ . (a-Benzoyl- $\beta$ -piperidino ethane). 719P.  
571-733-1022.  
(1)-a-Triazone, 3,4,5,6-tetrahydro-4,6-dimethyl-;  $O:(C_2H_5N_2)(CH_3)_2$ . 361P.  
571-742-951-1021.  
Pyrazolone, methylphenyl-, CU;  $O:(C_6H_5N_2)(CH_3)-C_6H_5$ .  
NT *Macrosporium sarcinaeforme*. 289.  
571-742-951-1022.  
Antipyrine;  $O:(C_6H_5N_2)(CH_3)_2C_6H_5$ . 1-5-Dimethyl-2-phenyl-3-pyrazolone).  
NT *Macrosporium sarcinaeforme*. 289.  
571-951-1011.  
Acetophenone;  $CH_3COC_6H_5$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
571-951-1011-1176-1291.  
Acetophenone, compound with mercuric chloride;  $HgCl_2 \cdot C_6H_5COC_6H_5$ . (Methyl phenyl ketone, mercuric chloride salt).  
Seed-cauterizing agent. 1499P.  
571-952-1031-1176-1291.  
Benzophenone, compound with mercuric chloride;  $HgCl_2 \cdot C_6H_5COC_6H_5$ . (Diphenyl ketone, mercuric chloride salt).  
Seed-cauterizing agent. 1499P.  
571-1001-1176-1350.  
2-Butanone, compound with mercuric oxide;  $3HgO \cdot CH_3COC_2H_5$ . (Methyl ethyl ketone, mercuric salt).  
Seed-cauterizing agent. 1499P.  
571-1003.  
Acetone;  $CH_3COC_2H_5$ .  
NT *Fusarium cubense*. 1430A.  
571-1003-1176-1350.  
Acetone, compound with mercuric oxide;  $3HgO \cdot 2CH_3COC_2H_5$ . (Dimethyl ketone, mercuric oxide salt).  
Seed-cauterizing agent. 1499P.  
572-581-851-952.  
Phenanthroquinone, 4-chloro-;  $C_{10}H_6(O)_2 \cdot ClC_6H_4OH$ .  
T *Macrosporium sarcinaeforme*, bunt, stripe disease of barley, and mold. 131P, 289.  
572-583-810-1251.  
Chrysophanic acid;  $(O)_2(C_6H_4)_2(OH)_2$ . (Chrysophanic; purified Gea powder; 1,8-dihydroxy-3-methylanthraquinone).

- T *Acherion schenckii*, 233.  
572-582-983.  
Quinhydrone;  $C_6H_4(O):C_6H_4(OH)_2$  (Pheniquinones).  
T bunt, stripe disease of barley, mold, *Sclerotinia fructicola*, and *Macrosporium sarcinaeforme*, 131P, 289.  
572-625.  
Succinic anhydride;  $(O)_2(C_4H_4O)$ .  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*, 289, 717.  
572-740-1177.  
Succinimide, mercurised. (Mercury succinimide), 786P.  
572-854-951.  
Chloranil;  $(O)_2C_6Cl_4$  (Tetrachloroquinone; tetrachlorobenzoquinone; Spargon).  
T many species of fungi, 13, 287, 289.  
572-855-957.  
4-Cyclohexene-1,3-dione, pentachloro-;  $(O)_2(C_6H)Cl_5$  (Pentachloro-m-diketocyclohexane), 87P.  
572-881-951.  
Halogen-quinones, CU.  
T bunt, stripe disease of barley, and mold, 131P.  
572-910-1021.  
Anthraquinone, 2-methyl-;  $(O)_2(C_{10}H_7)CH_3$  ( $\beta$ -Methyl anthraquinone).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
572-924-1021.  
1,4-Naphthoquinone, 2-methyl-;  $(O)_2(C_{10}H_5)CH_3$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289, 717.  
572-951.  
Quinone;  $O:C_6H_4:O$  (*p*-Benzoquinone; 1,4-cyclohexadienedione).  
T leaf mold, 131P, 1304.  
572-951.  
Quinone compounds.  
T bunt, stripe disease of barley, and mold, 131P.  
572-951.  
Quinones, substitution products of.  
T bunt, stripe disease of barley, and mold, 131P.  
572-951-1045.  
Quinone, homologues and analogues of.  
T bunt, stripe disease of barley, and mold, 131P.  
572-993-1142.  
2,4-Heptanedione, 6-methyl-, copper derivative? (Copper acetyl methyl isobutyl ketone).  
T *Macrosporium sarcinaeforme*, 717.  
581-591-691-951-989-1003-1011-1321.  
Cyclohexylamine, *N*-(3-dodecyl-2-hydroxypropyl)-*N*-ethyl-, hydrohalide. (Cyclohexylethyl(( $\gamma$ -dodecyloxy- $\beta$ -hydroxypropyl)-ammonium halide), 352P.  
581-591-695-951-989-1003-1012-1021-1291.  
Ammonium chloride, benzyl(1-dodecyloxy-2-hydroxypropyl)diethyl-;  $C_6H_5CH_2(C_6H_5)_2N(Cl)CH(OC_{12}H_{25})-CH(OH)CH_3$  (Diethylbenzyl( $\alpha$ -dodecyloxy- $\beta$ -hydroxypropyl)-ammonium chloride), 351P.  
581-591-695-989-1003-1023-1321.  
Ammonium halide, 3-dodecyloxy-2-hydroxypropyltrimethyl-;  $(CH_3)_3N(X)CH_2CH(OH)CH_2OC_{12}H_{25}$  (( $\gamma$ -Dodecyloxy- $\beta$ -hydroxypropyl)trimethyl-ammonium halide), 352P.  
581-591-720-730-950-1011-1022-1030-1291.  
Quinine hydrochloride;  $C_{20}H_{24}N_2O_8 \cdot HCl$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-591-720-730-950-1011-1022-1030-1291.  
Quinidine hydrochloride;  $C_{20}H_{24}N_2O_8 \cdot HCl$ .  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*, 289, 717.  
581-591-720-730-950-1011-1022-1030-1359.  
Quinine sulfate;  $(C_{20}H_{24}N_2O_8)_2 \cdot H_2SO_4$ .  
ST *Macrosporium sarcinaeforme*, 717.  
581-591-720-730-950-1011-1023-1030-1359.  
Quinine bisulfate;  $C_{20}H_{24}N_2O_8 \cdot H_2SO_4$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-591-720-730-950-1011-1023-1030-1359.  
Phenol, (3-chloroethoxy)-ethoxy-, CU;  $HOC_6H_4-OCH_2CH_2OCH_2CH_2Cl$ , 1035P.  
581-625-1021.  
Furfuryl alcohol, tetrahydro-;  $C_4H_7OCH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-657-951.  
Phenol, hydrazine-, CU;  $HOC_6H_4NHNH_2$  (Hydroxyphenylhydrazine).  
Seed disinfectant, 88P.  
581-659-951-1003.  
Acetone, *p*-hydroxyphenylhydrazones;  $HOC_6H_4NHN=C(CH_3)_2$ .  
Prevents mold, etc. on seeds, 346P.  
581-659-952-1021.  
Salicylaldehyde, *p*-hydroxyphenylhydrazones;  $HOC_6H_4CH:NHC_6H_4OH$ .  
Prevents mold, etc. on seeds, 346P.  
581-671-951.  
Phenol, *o*-amino-;  $HOC_6H_4NH_2$ .  
T *Sclerotinia sclerotiorum* at 1,1,000; T *Macrosporium sarcinaeforme*, 289, 728.  
581-671-951.  
Phenol, *p*-amino-;  $HOC_6H_4NH_2$ .  
T mildew fungi in cotton goods and *Sclerotinia sclerotiorum*, 476, 728.  
581-671-951-1113.  
Benzenearsonic acid, 3-amino-4-hydroxy-;  $H_3O_2AsC_6H_4(OH)(NH_2)?$  (3 Amino-4-hydroxyphenylarsonic oxide).  
T smut of barley grains, 74.  
581-671-1001.  
1-Butanol, 2-amino-;  $CH_3CH_2CH(NH_2)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 717.  
581-671-1001.  
1-Propanol, 2-amino-2-methyl-;  $CH_3C(NH_2)(CH_3)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 717.  
581-681-952-1270.  
Phenol, anilino-, borate, CU;  $C_6H_5NHC_6H_4OBO?$  (Mono-hydroxy-diphenyl-amine in which the hydroxyl hydrogen atom is replaced by a boric acid residue), 720P.  
581-681-951-1011.  
Ethanol, 2-cyclohexylamino-;  $C_6H_{11}NHCH_2CH_2OH$ .  
Cyclohexylethanolamine), 377P.  
581-691-1013.  
Ethanol, 2-diethylamino-;  $HOCH_2CH_2N(C_2H_5)_2$ , 289.  
581-693-951-1025.  
Phenol, 2,4,6-tris(dimethylaminomethyl)-;  $C_6H_4OH[CH_2N(CH_3)_2]_3$ , 151P.  
581-695-740-950-990-1011-1022-1359.  
Indolinium methylsulfate, 2,3-dihydro-2-hendecyl-*N*-(3-hydroxyethyl)methyl-;  $C_{11}H_{23}(C_6H_7N)(C_6H_4OH)-(CH_2)_8SO_3CH_3$  (Made by reacting ethylene oxide, 2-hendecyl-2,3-dihydroindole, and dimethyl sulfate).  
Also bactericide, 520P.  
581-695-781-989-1011-1023-1321.  
Ammonium halide, dimethyldodecylmercaptomethyl (2-hydroxyethyl)-;  $C_{12}H_{25}SCH_2N(C_2H_4OH)(CH_3)_2X$  (Dimethyl (hydroxyethyl) (dodecylthiomethyl) ammonium halide), 352P.  
581-700-924-1001.  
1-Naphthylamine, *N*-(3-hydroxybutylidene)-;  $CH_3CHOHC_6H_4CH:NC_6H_7?$  (Aldol  $\alpha$ -naphthyl amine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-720-730-950-1011-1021-1030-1291.  
Cinchonine hydrochloride;  $C_{21}H_{28}N_2O \cdot HCl$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-720-730-950-1011-1021-1030-1291.  
Cinchonidine hydrochloride;  $C_{21}H_{28}N_2O \cdot HCl$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-730-851-950-1021.  
Lepidine, 2-chloro-2-hydroxy;  $HOC_6H_4N(Cl)CH_3$  (2 Hydroxy 2 chloro 4 methyl quinoline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-730-851-950-1021.  
Quinoline, 4-chloromethyl-2-hydroxy;  $HOC_6H_4NCH_2Cl$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.

581-730-852-950-1021.

Quinoline, 8-chloro-4-methyl-2-hydroxy;  $\text{HOC}_6\text{H}_4\text{N}(\text{CH}_3)\text{CH}_2\text{Cl}$ .NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.

581-730-950.

Quinoline, 2-hydroxy-;  $\text{HOC}_6\text{H}_4\text{N}$ . (*o*-Hydroxyquinoline).T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and cryptogamic diseases; seed disinfectant. 289, 686P, 717, 1123AP.

581-730-950.

Quinoline, 8-hydroxy-;  $\text{HOC}_6\text{H}_4\text{N}$ .T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.

581-730-950.

Quinoline, hydroxy-; CU;  $\text{HOC}_6\text{H}_4\text{N}$ .

Promising control of mildew. 950.

581-730-950-1021.

Lepidine, 2-hydroxy-;  $\text{HOC}_6\text{H}_4\text{NCH}_3$ . (2 Hydroxy 4 methyl quinoline).NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.

581-730-950-1389.

Quinoline, 8-hydroxy sulfate;  $\text{HOC}_6\text{H}_4\text{N.H}_2\text{SO}_4$ . (Chinosol; oxyquinoline sulfate; Sunoxol, RAL; Quinosol).T *Trichophyton fungus* or *Microsporon audouini*, *Tinea trichophytina* (circinata), *Macrosporium sarcinaeforme*, and mildew. 283, 289, 717.

581-841-951.

Phenol, *o*-bromo-;  $\text{BrC}_6\text{H}_4\text{OH}$ .

HT mold fungi at 0.07%. 476.

581-841-951-1177-1291.

Phenol, *p*-bromo-(chloromercuri)-, CU;  $\text{HOC}_6\text{H}_4(\text{Br})\text{HgCl}$ .

MT mold fungi at 0.01%. 476.

581-842-951.

Phenol, 2,4-dibromo-;  $\text{Br}_2\text{C}_6\text{H}_3\text{OH}$ .

HT mold fungi at 0.05%. 476.

581-842-951-1177-1291.

Phenol, chloromercuri-2,4-dibromo-, CU;  $\text{Br}_2\text{C}_6\text{H}_3(\text{OH})\text{HgCl}$ .

MT mold fungi at 0.01%. 476.

581-843-951.

Phenol, tribromo-, CU;  $\text{Br}_3\text{C}_6\text{H}_2\text{OH}$ .

HT mold fungi at 0.005-0.01%. 476.

581-844-951-1021.

Cresol, tetrabromo-, CU;  $\text{Br}_4\text{C}_6(\text{CH}_3)\text{OH}$ .

HT mold fungi at 0.03%. 476.

581-851-924.

2-Naphthol, 1-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ . (1-Chlor  $\beta$  naphthol).

T several species wood-destroying fungi. 60.

581-851-951.

Phenol, *o*-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ .T wood-destroying fungi but too volatile as wood preservative; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289, 656.

581-851-951.

Phenol, *m*-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ .

T wood-destroying fungi. 656.

581-851-951.

Phenol, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ .T wood-destroying fungi and *Sclerotinia sclerotiorum* at 1-1,000. 656, 728.

581-851-951-999.

Phenol, 4-*tert*-amyl-2-chloro-;  $\text{ClC}_6\text{H}_4(\text{C}_4\text{H}_9)\text{OH}$ .NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.

581-851-951-1000.

Phenol, 2-chloro-4,6-di-*tert*-amyl-;  $\text{ClC}_6\text{H}_3(\text{C}_4\text{H}_9)_2\text{OH}$ .NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.

581-851-951-1003-1021.

Thymol, chloro-, CU;  $\text{CH}_3(\text{C}_6\text{H}_4)\text{C}_6\text{H}_4(\text{OH})\text{Cl}$ .T *Trichophyton* and various fungi. 283, 476, 831.

581-851-951-1003-1021.

Carvacrol, chloro-, CU;  $\text{CH}_3[\text{OH}(\text{CH}_3)]_2\text{C}_6\text{H}_3(\text{OH})\text{Cl}$ . (Monochloroisothymol). 831.

581-851-951-1021.

*m*-Cresol, 6-chloro-;  $\text{ClC}_6\text{H}_4(\text{OH})\text{CH}_3$ . (*p*-Chloro-*m*-cresol) (4-chloro 3 hydroxytoluene).T *Trichophyton fungus*, *Achorion Schonleini*, and *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 283, 289.

581-851-951-1021-1177.

Cresol, chloro-, mercurised, CU. 786P.

581-851-951-1022.

3,5-Xylenol, chloro-, CU;  $\text{ClC}_6\text{H}_3(\text{CH}_3)_2\text{OH}$ . (Chloro-*sym*-xylenol).T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.

581-851-951-1022.

Xylenol, chloro-, CU;  $\text{ClC}_6\text{H}_3(\text{CH}_3)_2\text{OH}$ . (*p*-Chloro-*m*-xylenol).T *Trichophyton fungus* and *Achorion Schonleini*. 283, 831.

581-851-951-1177.

Phenols, chloro-, mercurised, CU. 786P.

581-851-951-1177-1218.

Phenol, chloro-, mercurised, sodium salt. 786P.

581-851-951-1177-1291.

Phenol, *o*-chloro-chloromercuri-, CU;  $\text{HOC}_6\text{H}_3(\text{Cl})\text{HgCl}$ .

HT mold fungi at 0.01%. 476.

581-851-951-1177-1291.

Phenol, *p*-chloro-dichloromercuri-, CU;  $\text{HOC}_6\text{H}_3(\text{Cl})\text{HgCl}_2$ .

T mold fungi at 0.01%. 476.

581-851-951-1177-1355.

Phenol, chloro-(hydroxymercuri)-, CU;  $\text{HOC}_6\text{H}_4(\text{Cl})\text{HgOH}$ . (Hydroxymercurichlorophenol). 182P.

581-851-952.

Phenol, 2-chloro-4-phenyl-;  $\text{ClC}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OH}$ . (2-Chloroparaphenylphenol).T wood-destroying fungi and *Macrosporium sarcinaeforme*. 289, 656.

581-851-952.

Phenol, 4-chloro-2-phenyl-;  $\text{ClC}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ .

T wood-destroying fungi. 655, 656, 1059P.

581-851-952.

Phenol, 2-chloro-6-phenyl-;  $\text{ClC}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ . (3-Chlorothophenylphenol).

T as wood preservative. 655, 729.

581-851-1001.

1-Butanol, chloro-, CU;  $\text{ClC}_4\text{H}_8\text{OH}$ . (Chlorobutanol). NT as fungicide. 7.

581-852-924.

1-Naphthol, 2,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OH}$ .

T several species wood-destroying fungi. 60.

581-852-951.

Phenol, 2,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OH}$ .

T wood-destroying fungi. 656.

581-852-951.

Phenol, 2,5-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OH}$ .

T wood-destroying fungi. 656.

581-852-952.

Phenol, 2,6-dichloro-4-phenyl-;  $\text{Cl}_2\text{C}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ .

T wood-destroying fungi. 656.

581-852-952.

Phenol, 3,4-dichloro-6-phenyl-;  $\text{Cl}_2\text{C}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ .

(2,4-Dichlororthophenylphenol).

T wood-destroying fungi. 656.

581-852-1003.

2-Propanol, 1,3-dichloro-;  $\text{ClCH}_2\text{CH}(\text{OH})\text{CH}_2\text{Cl}$ .

(Glycerin a dichlorhydrin).

NT *Macrosporium sarcinaeforme*. 289.

581-853-951.

Phenol, 2,4,5-trichloro-;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OH}$ .

T wood-destroying fungi. 656, 1059P.

581-853-951.

Phenol, 2,4,6-trichloro-;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OH}$ .

T wood-destroying fungi and cotton mildew. 476, 655, 1059P.

581-853-951-1011.

Benzyl alcohol, *n*-trichloromethyl-;  $(\text{Cl}_3\text{C})\text{CH}(\text{C}_6\text{H}_5)\text{OH}$ . (Trichloromethylphenylcarbinol).

Parasiticide. 851P.

581-853-951-1031.

Cresol, trichloro-, CU;  $\text{CH}_3(\text{Cl})_3\text{C}_6\text{H}_2\text{OH}$ . 855P.

581-853-1001.

2-Propanol, 3-trichloromethyl-;  $(\text{CH}_3)_2\text{C}(\text{OH})\text{CCl}_3$ . (Acetone-chloroform).

Parasiticide. 851P.

- 581-953-1048.  
3-Propenol, 1,1,1-trichloro-;  $\text{CCl}_3\text{CH}(\text{OH})\text{CH}_3$ .  
Parasiticide. 581P.
- 581-954-951.  
Phenol, 2,3,4,6-tetrachloro-;  $\text{Cl}_4\text{C}_6\text{H}_2\text{OH}$ . (Phenol, 2,4,5,6-tetrachloro-).  
T wood-destroying fungi. 656, 1049P.
- 581-954-951.  
Phenol, tetrachloro-,  $\text{Cl}_4\text{C}_6\text{H}_2\text{OH}$ .  
T several species fungi. 60, 355P, 655, 657.
- 581-955-951.  
Phenol, pentachloro-;  $\text{Cl}_5\text{C}_6\text{H}_2\text{OH}$ .  
T several species wood-destroying fungi. 60, 655, 729.
- 581-951-953.  
1-Octadecanol, 18-fluoro-?;  $\text{FCH}_2(\text{CH}_2)_{16}\text{CH}_2\text{OH}$ .  
Fluorooctadecyl alcohol). 345P.
- 581-957-975-1021.  
Methanes, hydroxydiaryl-, halogenated;  $\text{R}_2(\text{OH})-\text{CHX}$ ?  
T mold. 455P, 1179.
- 581-957-975-1021.  
Methanes, hydroxytriaryl-, halogenated;  $\text{R}_3(\text{OH})\text{CX}$ ?  
T mold. 455P, 1179.
- 581-904-993-1022.  
Cholesterol;  $\text{C}_{27}\text{H}_{48}\text{OH}$ .  
Seed disinfectant. 183P.
- 581-910.  
9-Anthrol;  $\text{C}_{14}\text{H}_9\text{OH}$ . (Anthranol; 9 hydroxyanthracene). 584P.
- 581-924.  
1-Naphthol;  $\text{C}_{10}\text{H}_7\text{OH}$ . ( $\alpha$ -Naphthol).  
T wood-destroying fungi and *T Fusarium cubense* at 0.5%. 60, 1420A.
- 581-924.  
2-Naphthol;  $\text{C}_{10}\text{H}_7\text{OH}$ . ( $\beta$ -Naphthol; 2-hydroxy-naphthalene).  
T *Sclerotinia fruticola*, mycoses, *Fuscladium*, *Peronospora*, and *T Fusarium cubense* at 1%; NT *Macrosporium sarcinaeforme*. 60, 89P, 283, 289, 728, 1420A, 1432.
- 581-951.  
Phenol;  $\text{C}_6\text{H}_5\text{OH}$ . (Carbolic acid, hydroxybenzene).  
Injected into chestnut trees for blight control;  
T mycoses, wood-destroying fungi, and *T Fusarium cubense* at 0.25%. 175, 283, 656, 1081, 1213B, 1420A.
- 581-951-951.  
Phenol, *o*-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OH}$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 581-951-951.  
Phenol, *p*-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OH}$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 581-951-975-1027.  
Phenols, aralkyl polynuclear with general formula  $\text{C}_6\text{H}_5\text{C}(\text{R})(\text{CH}_2)(\text{X})$  wherein X is a phenolic radical having a hydroxyl group in one of the positions ortho and para to the aralkyl radical and selected from the class consisting of hydroxylated polynuclear aryl and hydroxylated polynuclear mono-halo-aryl radicals and R is a substituent selected from the class consisting of lower alkyl radicals. 1091P.
- 581-951-999.  
Phenol, *p*-tert-amy-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fruticola*. 289.
- 581-951-999-1177-1291.  
Phenol, 2-chloromercuri-4-isoamyl-;  $\text{HOC}_6\text{H}_4(\text{C}_5\text{H}_{11})\text{HgCl}$  (2-Chloromercuri-*p*-isoamyl-phenol).  
MT mold fungi at 0.01%. 476.
- 581-951-1001.  
Phenol, butyl-,  $\text{CU}$ ;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_4\text{OH}$ .  
T several species wood-destroying fungi. 655.
- 581-951-1001.  
Phenol, *p*-tert-butyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 581-951-1001-1081.  
Cresol, butyl-,  $\text{CU}$ ;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
T several species wood-destroying fungi. 655.
- 581-951-1003-1021.  
Carvacrol;  $\text{C}_9\text{H}_7\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (Isothymol).  
T *Sclerotinia fruticola*; NT *Macrosporium sarcinaeforme*. 289.
- 581-951-1003-1021.  
Thymol;  $\text{C}_9\text{H}_7\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (3-*p*-Cymenol; 3-hydroxy-1-methyl-4-isopropylbenzene).  
Injected into chestnut trees for blight control;  
T wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 60, 175, 283, 656, 717, 1213B.
- 581-951-1003-1021-1177-1291.  
Carvacrol, chloromercuri-,  $\text{CU}$ ;  $\text{CH}_3\text{C}_6\text{H}_4\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}-\text{HgCl}$ .  
T pathogenic fungi and T mold fungi at 0.09%. 155A, 476, 540B.
- 581-951-1003-1177-1291.  
Phenol, 4-tert-butyl-2-chloromercuri-;  $\text{HOC}_6\text{H}_4(\text{C}_4\text{H}_9)\text{HgCl}$ . (2-Chloromercuri-*p*-tert-butylphenol).  
HT mold fungi at 0.03%. 476.
- 581-951-1011.  
Ethanol, phenyl-,  $\text{CU}$ ;  $\text{C}_6\text{H}_5\text{C}_2\text{H}_4\text{OH}$ . (Phenyl ethyl alcohol).  
NT *Macrosporium sarcinaeforme*. 289.
- 581-951-1021.  
*o*-Cresol;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ .  
T but too volatile as wood preservative. 60.
- 581-951-1021.  
*m*-Cresol;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ . (*m*-Methylphenol; *m*-hydroxytoluene).  
Injected into chestnut trees for blight control;  
T but too volatile as wood preservative. 60, 175, 1213B.
- 581-951-1021.  
*p*-Cresol;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ . (*p*-Methylphenol; *p*-hydroxytoluene).  
Injected into chestnut trees for blight control;  
T but too volatile as wood preservative. 60, 175, 1213B.
- 581-951-1021.  
Cresol,  $\text{CU}$ ;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ . (Cresylic acid).  
T *Fusarium cubense*; gives short evanescent control of *Phytophthora* disease of strawberry but is of doubtful value. 9, 283, 1420A.
- 581-951-1021-1177-1291.  
*o*-Cresol, chloromercuri-,  $\text{CU}$ ;  $\text{HOC}_6\text{H}_4(\text{CH}_3)\text{HgCl}$ .  
HT mold fungi at 0.005-0.01%. 476.
- 581-951-1021-1177-1291.  
*p*-Cresol, 2-chloromercuri-,  $\text{HOC}_6\text{H}_4(\text{CH}_3)\text{HgCl}$ .  
HT mold fungi at 0.01%. 476.
- 581-951-1021-1177-1303.  
Cresol, cyanomercuri-,  $\text{CU}$ ;  $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})\text{HgCN}$ .  
Seed disinfectant. 1249P.
- 581-951-1022.  
3,5-Xylenol;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OH}$ . (1,3,5-Xylenol).  
MT several species wood-destroying fungi. 655.
- 581-951-1022.  
Xylenol,  $\text{CU}$ ;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OH}$ .  
Seed disinfectant. 183P.
- 581-951-1022-1177.  
Xylenols, mercurised (Nuclearily mercurised xylenols).  
Used for dry disinfection of seeds, particularly for combating *Fusarium*. 1252P.
- 581-951-1113-1325-1350.  
Benzenearsinic acid, *p*-hydroxy-;  $\text{HOC}_6\text{H}_4(\text{H})\text{AsO}_3\text{H}$ . (*p*-Hydroxyphenylarsinic acid).  
BT mold fungi at 0.02%. 476.
- 581-951-1177.  
Phenol, mercurised.  
Seed disinfectant. 1249P.
- 581-951-1177-1214-1291.  
Phenol, *o*-chloromercuri-, + soluble glass;  $\text{HOC}_6\text{H}_4-\text{HgCl}$  and soluble glass. (*o*-Hydroxyphenylmercuric chloride and soluble glass).  
Seed disinfectant. 345P.
- 581-951-1177-1291.  
Phenol, *o*-chloromercuri-;  $\text{HOC}_6\text{H}_4\text{HgCl}$ .  
HT mold fungi at 0.003%. 476.
- 581-951-1177-1291.  
Phenol, *p*-chloromercuri-;  $\text{HOC}_6\text{H}_4\text{HgCl}$ .  
HT mold fungi at 0.01-0.02%. 476.
- 581-952.  
Phenol, *m*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi. 655.
- 581-952.  
Phenol, *o*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T several species wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 60, 289, 657.
- 581-952.  
Phenol, *p*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 289, 655, 659.

- 581-981.  
Cyclohexanol;  $C_6H_{11}OH$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 581-978-1021.  
Methanes, hydroxydiaryl-;  $R_2OH(OH)$ .  
T mold. 1179, 1456P.
- 581-978-1031.  
Methanes, hydroxytriaryl-;  $R_3O(OH)$ .  
T mold. 1179, 1456P.
- 581-989.  
Dodecyl alcohol;  $C_{12}H_{25}OH$ .  
T wood-destroying fungi. 41.
- 581-990.  
Hendecyl alcohol;  $C_{11}H_{23}OH$ . (Undecyl alcohol).  
T wood-destroying fungi. 41.
- 581-991.  
Decyl alcohol;  $C_{10}H_{21}OH$ .  
T wood-destroying fungi. 41.
- 581-992.  
Nonyl alcohol;  $C_9H_{19}OH$ .  
T wood-destroying fungi. 41.
- 581-993.  
Octyl alcohol;  $C_8H_{17}OH$ .  
T wood-destroying fungi. 41.
- 581-995.  
Heptyl alcohol;  $C_7H_{15}OH$ .  
T wood-destroying fungi. 41.
- 581-997.  
Hexyl alcohol;  $C_6H_{13}OH$ .  
T wood-destroying fungi. 41.
- 581-999.  
Amyl alcohol;  $C_5H_{11}OH$ .  
T wood-destroying fungi. 41.
- 581-1001.  
Butyl alcohol;  $C_4H_9OH$ .  
T wood-destroying fungi. 41.
- 581-1001-1030.  
2-Propen-1-ol, 2-methyl-;  $CH_3:O(CH_3)CH_2OH$ .  
(Methylallyl alcohol).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-1003.  
Propyl alcohol;  $C_3H_7OH$ .  
ST wood-destroying fungi. 41.
- 581-1003-1177-1991.  
Mercury bromide, hydroxypropyl-, CU;  $HOC_2H_4-HgBr$ . (Propanolmercuric bromide).  
Seed disinfectant. 767P.
- 581-1011.  
Ethyl alcohol;  $CH_3CH_2OH$ . (Ethanol; methylcarbinol; alcohol, spirit of wine).  
T *Trichoderma lignorum*; NT wood-destroying fungi. 41, 804.
- 581-1011-1177-1291.  
Mercury chloride, hydroxyethyl-, CU;  $HOC_2H_4HgCl$ . (Ethanolmercuric chloride).  
Seed disinfectant. 767P, 1249P.
- 581-1021.  
Methyl alcohol;  $CH_3OH$ . (Methanol; carbinol; wood alcohol).  
Injected into chestnut trees for blight control;  
T downy mildew of hop. 41, 175, 1061, 1213B.
- 582-591-844-952.  
Ether, bis(dichloro-4-hydroxyphenyl)-, CU;  $HOC_6H_4-C_6H_4OC_6H_4Cl_2$ . 360P.
- 582-591-872-952.  
Ether, bis(2-hydroxy-5-iodophenyl)-;  $[HO(I)C_6H_3O]_2$ . (Bis(3-hydroxy-5-iodophenyl)oxide).  
Seed treatment. 283.
- 582-591-975.  
Ether, bis(hydroxyaryl)-. 360P.
- 582-571-999.  
1,3-Propanediol, 2-amino-2-ethyl-;  $HOCH_2C(CH_3)(NH_2)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 582-672-952-1113-1291.  
Arsphenamine;  $[(-AsC_6H_4(OH)(NH_2.HCl))_2]_2.H_2O$  or  $1CH_2OH$ . (Salvaren; arsenobenzol; '606'; 3,3'-diamino-4,4'-dihydroxy-arsenobenzene dihydrochloride).  
Nearly as T to germinating grain as to fungus itself. 74.
- 582-581-975.  
Amine, bis(hydroxyaryl)-. 360P.
- 582-591-951-1012.  
Cyclohexylamine,  $N,N$ -bis(hydroxyethyl)-;  $C_6H_{11}N(C_2H_4OH)_2$ . Diethanolcyclohexylamine). 377P.
- 582-591-975-1027.  
Amine, bis(hydroxyaryl)-,  $N$ -alkyl-. (Bis(hydroxyaryl)alkyl amine). 360P.
- 582-591-1001-1012.  
Butylamine,  $N,N$ -bis(hydroxyethyl)-;  $C_4H_9N(C_2H_4OH)_2$ . (Butyl diethanol amine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 582-781-842-952.  
Sulphide, bis(5-bromo-2-hydroxyphenyl)-;  $[Br(OH)-C_6H_4]_2S$ .  
Useful for combating mildew on roses, impregnating dead wood, and suitable for treating seed grain. 383P, 1178.
- 582-781-952-1254.  
Dihydrogen arsenate, 2,2'-thiobis[5-hydroxyphenyl-;  $S[C_6H_4(OH)H_2AsO_4]_2$ . (Sulphide, bis(4-hydroxyphenyl-2-arsenic acid)-).  
T mildew on roses and other plants. 383P, 1178.
- 582-783-552-952.  
Phenol, 2,2'-trithiobis[4-chloro-;  $[Cl(OH)C_6H_4S]_2S$ . (Trisulphide, bis(5-chloro-2-hydroxyphenyl)-).  
T mildew on plants. 383P, 1178.
- 582-851-1003.  
1,2-Propanediol, 3-chloro-;  $CH_3OHOCH_2CH_2Cl$ .  
(Glycerin  $\alpha$  monochlorhydrin).  
NT *Macrosporium sarcinaeforme*. 289.
- 582-852-952-1021.  
Phenol, 2,2'-methylenebis[4-chloro-;  $[(OH)(Cl)C_6H_4]_2CH_2$ . (Halanol, 2,2'-dihydroxy 5,5'-dichloro diphenyl 1-4 methane, compound G-4).  
T *Trichophyton* fungus. 283.
- 582-856-952-1021.  
Phenol, 2,2'-methylenebis[3,4,6-trichloro-;  $Cl_3C_6H(OH)CH_2C_6H(OH)Cl_3$ . 2,3'-Dihydroxy-3,5,6,3',5',6'-hexachloro diphenyl methane). 608P.
- 582-951.  
Pyrocatechol;  $C_6H_4(OH)_2$ . (Pyrocatechin; 1,2-benzenediol; catechol; 1,2-dihydroxybenzene).  
Injected into chestnut trees for blight control;  
T wood-destroying fungi. 60, 175, 1213B.
- 582-951.  
Resorcinol;  $C_6H_4(OH)_2$ . (1,3-Dihydroxybenzene).  
T *Trichophyton* fungus or *Achorion Schonleinii*. 283.
- 582-951.  
Hydroquinone;  $C_6H_4(OH)_2$ . (1,4-Dihydroxybenzene; Quinol).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 283, 289, 717.
- 582-951-961.  
Resorcinol, 4-hexyl-;  $C_6H_3(C_6H_4OH)_2$ . (Hexylresorcinol).  
MT mold fungi at 0.05%. 476.
- 582-952-1003.  
Hydroquinone, 2-( $\alpha,\alpha$ -dimethylbenzyl)-;  $C_6H_5C(CH_3)_2C_6H_4(OH)_2$ . (2-( $\alpha$ -Phenyl isopropyl) Hydroquinone). 1089P.
- 582-952-1003.  
Catechol, 4-( $\alpha,\alpha$ -dimethylbenzyl)-;  $C_6H_5C(CH_3)_2-C_6H_4(OH)_2$ . (4-( $\alpha$ -Phenyl isopropyl) catechol). 1089P.
- 582-952-1003.  
Resorcinol, 4-( $\alpha,\alpha$ -dimethylbenzyl)-;  $C_6H_5C(CH_3)_2-C_6H_4(OH)_2$ . (4-( $\alpha$ -Phenyl isopropyl)resorcinol). 1089P.
- 582-952-1003.  
Phenol,  $p,p'$ -isopropylidenedi-;  $(CH_3)_2C(C_6H_4OH)_2$ . ( $p,p'$ -isopropylidene bisphenol).  
NT *Macrosporium sarcinaeforme*. 289.
- 583-593-691-1015.  
Tris[2-(2-hydroxyethoxy)-ethyl] amine;  $N(CH_2CH_2OCH_2CH_2OH)_3$ . (Triethanolamine trihydroxyethyl ether).  
Disinfectant. 1420P.
- 583-671-1001.  
1,3-Propanediol, 2-amino-2-hydroxymethyl-;  $H_2NC(CH_2OH)_2$ . (Tris(hydroxymethyl), amino methane).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.

- 583-951-1013.  
Triethanolamine;  $N(CH_2CH_2OH)_3$ .  
T several species wood-destroying fungi. 655.
- 588-910.  
9-Anthrol, 1,8-dihydroxy-;  $C_{12}H_8(OH)_2$ . (1,8-Dihydroxyanthranol; signalin; anthralin).  
T *Achorion echiniscus* (scalp ringworm). 283, 584P.  
583-951.
- Pyrogallol;  $C_6H_3(OH)_3$ . (Pyrogallie acid; 1,2,3-benzenetriol; *v*-trihydroxybenzene).  
T mycoses and wood-destroying fungi. 60, 175, 283, 1213B.
- 583-951.  
Phloroglucinol;  $C_6H_3(OH)_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 583-953-1213-1341.  
Selenonium nitrate, tris(hydroxyphenyl)-, CU;  $(HOC_6H_4)_3SeNO_3$ ? (Trihydroxyphenyl selenonium nitrate).  
ET mold fungi at 0.05%, 476.
- 583-1003.  
Glycerol;  $CH_2(OH)CH(OH)CH_2OH$ . (Glycerin; 1,2,3-propanetriol).  
NT at 1 and 2% but T at 4% *Sphaerotheca Humuli*. 47A, 902.
- 588-591-701-951-1012-1177.  
Acetonitrile, 2-(phenoxymercuri)-ethoxy-;  $ONCH_2OCH_2CH_2HgOC_6H_5$ .  
Seed disinfectant. 958P.
- 588-591-951-1011-1022-1177.  
Benzyl alcohol, 2-methoxyethylmercury derivative;  $CH_3OCH_2CH_2HgOC_6H_5$ .  
Used to immunise seeds. 957P.
- 588-700-1000-1011-1033-1143.  
Ethylenediamine, *N,N'*-bis(1-methyl-3-oxobutylidene)-, copper derivative;  $C_{12}H_{24}CuN_2O_2$ . (Copper derivative of ethylenediaminobisacetylacetone). 905.
- 588-730-842-950-1244.  
Quinoline, 5,7-dibromo-8-hydroxy-, zinc derivative;  $[(C_6H_4NBr_2)O]_2Zn$ .  
T *Sclerotinia fruticola*; NT *Macrosporium sarcinaeforme*. 289.
- 588-730-950-1106.  
Quinoline, 8-hydroxy-, aluminum derivative;  $[(C_6H_4N)O]_3Al$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fruticola*. 289, 717.
- 588-730-950-1118.  
Quinoline, 8-hydroxy-, bismuth derivative;  $[(C_6H_4N)O]_3Bi$ .  
Seed treatment. 686P, 1123AP.
- 588-730-950-1126.  
Quinoline, 8-hydroxy-, calcium derivative;  $[(C_6H_4N)O]_2Ca$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fruticola*. 289, 717.
- 588-730-950-1172.  
Quinoline, 8-hydroxy-, magnesium derivative;  $[(C_6H_4N)O]_2Mg$ .  
T *Sclerotinia fruticola*; NT *Macrosporium sarcinaeforme*. 289, 717.
- 588-730-950-1176.  
Quinoline, 8-hydroxy-, mercury derivative;  $[(C_6H_4N)O]_2Hg$ .  
Seed treatment. 686P, 1123AP.
- 588-843-951-1218.  
Phenol, tribromo-, sodium derivative; CU;  $Br_3C_6H_2ONa$ . (Tribromophenol, sodium salt).  
HT mold fungi at 0.007%. 476.
- 588-851-951-1218.  
Phenol, *o*-chloro-, sodium derivative;  $ClC_6H_4ONa$ . (Sodium orthochlorophenolate).  
T wood-destroying fungi. 656.
- 588-851-951-1218.  
Phenol, *m*-chloro-, sodium derivative;  $ClC_6H_4ONa$ . (Sodium metachlorophenolate).  
T wood-destroying fungi. 656.
- 588-851-951-1218.  
Phenol, *p*-chloro-, sodium derivative;  $ClC_6H_4ONa$ . (Sodium parachlorophenolate).  
T wood-destroying fungi. 656.
- 588-951-952-1177.  
Phenol, *o*-chloro-phenylmercury derivative;  $C_6H_4HgOC_6H_4Cl$  368P.
- 588-851-952-1218.  
Phenol, 2-chloro-4-phenyl, sodium derivative;  $ClC_6H_3(C_6H_4)ONa$ .  
T wood-destroying fungi. 656.
- 588-851-952-1218.  
Phenol, 2-chloro-6-phenyl-, sodium derivative;  $ClC_6H_3(C_6H_4)ONa$ . (Sodium 2-chloroorthophenylphenolate).  
T wood-destroying fungi. 656.
- 588-851-952-1218.  
Phenol, 4-chloro-2-phenyl-, sodium derivative;  $ClC_6H_3(C_6H_4)ONa$ . (Sodium 4-chloro-6-phenylphenolate; sodium 4-chloroorthophenylphenolate).  
T several species wood-destroying fungi. 655, 656.
- 588-851-952-1218.  
Phenol, chloro-3-phenyl-, sodium derivative, CU;  $ClC_6H_3(C_6H_4)ONa$ . (Sodium monochlorometaphenylphenolate).  
T wood-destroying fungi. 656.
- 588-852-951-1142-1389.  
Phenol, 2,4-dichloro-, copper sulfate compound;  $Cl_2C_6H_3OH.CuSO_4$ . 362P.
- 588-852-951-1218.  
Phenol, 2,4-dichloro-, sodium derivative;  $Cl_2C_6H_3ONa$ .  
T wood-destroying fungi. 656.
- 588-852-951-1218.  
Phenol, 2,5-dichloro-, sodium derivative  $Cl_2C_6H_3ONa$ .  
T wood-destroying fungi. 656.
- 588-852-951-1244-1291.  
Phenol, 2,4-dichloro-, zinc chloride compound;  $Cl_2C_6H_3OH.ZnCl_2$ . 362P.
- 588-852-952-1218.  
Phenol, 2,4-dichloro-6-phenyl-, sodium derivative;  $Cl_2C_6H_3(C_6H_4)ONa$ . (Sodium 2,4-dichloroorthophenylphenolate).  
T wood-destroying fungi. 656.
- 588-852-952-1218.  
Phenol, 2,6-dichloro-4-phenyl-, sodium derivative;  $Cl_2C_6H_3(C_6H_4)ONa$ . (Sodium 2,6-dichloroparaphenylphenolate).  
T wood-destroying fungi. 656.
- 588-853-951-1021-1142-1389.  
*p*-Cresol, 2,6-trichloro-; copper sulfate compound;  $Cl_3C_6H_2(CH_3)OH.CuSO_4$ . ( $CuSO_4$  of 2,3,5-Trichloro-4-hydroxy-1-methylbenzene). 362P.
- 588-853-951-1021-1244-1291.  
*p*-Cresol, 2,3,6-trichloro-, zinc chloride compound;  $Cl_3C_6H_2(CH_3)OH.ZnCl_2$ . ( $ZnCl_2$  of 2,3,5-Trichloro-4-hydroxy-1-methylbenzene). 362P.
- 588-853-951-1218.  
Phenol, 2,4,5-trichloro-, sodium derivative;  $Cl_3C_6H_2ONa$ .  
T *Glomerella gossypii*, *Rhizoctonia*, *Pythium*, etc. 13, 656, 967P.
- 588-853-951-1218.  
Phenol, 2,4,6-trichloro-, sodium derivative;  $Cl_3C_6H_2ONa$ .  
T wood-destroying fungi. 656.
- 588-853-951-1218.  
Phenol, trichloro-, sodium derivative, CU;  $Cl_3C_6H_2ONa$ .  
Bactericide; T mold fungi at 0.007%. 355P, 476.
- 588-854-951-1218.  
Phenol, 2,3,4,6-tetrachloro-, sodium derivative;  $Cl_4C_6HONa$ .  
T wood-destroying fungi and *Macrosporium sarcinaeforme*. 289, 656.
- 588-854-951-1218.  
Phenol, tetrachloro-, sodium derivative, CU;  $Cl_4C_6HONa$ .  
T several species wood-destroying fungi. 60, 655.
- 588-855-951-1218.  
Phenol, pentachloro-, sodium derivative;  $Cl_5C_6ONa$ .  
T wood-destroying fungi and *Macrosporium sarcinaeforme*. 60, 289, 717.
- 588-924-951-1177.  
Naphthols, phenylmercury derivatives, CU;  $C_{10}H_7HgOC_6H_4$ . 368P.
- 588-924-1177-1246.  
Naphthols, mercurised alkali derivatives, CU. 786P.



- 588-951-1021-1126.  
Cresol, calcium derivative, CU;  $[\text{CH}_3\text{C}_6\text{H}_4\text{O}]_2\text{Ca}$ . (Calcium cresolate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 10P, 916A.
- 588-951-1021-1176-1303.  
Cresol, cyanomercury derivative; CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{OHg-CN}$ . (Mercury cresolcyanide). 379P.
- 588-951-1021-1176-1309.  
o-Cresol, mercuric ferrocyanide derivative;  $(\text{CH}_3\text{C}_6\text{H}_4\text{OHg})_2\text{Fe}(\text{CN})_6$ ? (Ferrocyanide mercury-o-cresol). 1237P.
- 588-951-1021-1176-1405.  
o-Cresol, mercuric thiocyanate derivative;  $\text{CH}_3\text{C}_6\text{H}_4\text{OHgCNS}$ ? 1237P.
- 588-951-1218.  
Phenol, sodium derivative;  $\text{C}_6\text{H}_5\text{ONa}$ . (Sodium carbolate; sodium phenolate or phenate).  
Injected into chestnut trees for blight control; T mold fungi. 175, 476, 656, 1213B.
- 588-952-1003-1021-1177.  
Carvacrol, phenylmercury derivative;  $\text{C}_6\text{H}_5\text{HgOC}_6\text{H}_3(\text{CH}_3)\text{CH}(\text{CH}_3)_2$ . (Isothymol, phenyl-mercury derivative). 368P.
- 588-952-1021-1177.  
p-Cresol, phenylmercury derivative;  $\text{C}_6\text{H}_5\text{HgOC}_6\text{H}_4\text{CH}_3$ . 368P.
- 588-952-1218.  
Phenol, o-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ . (o-Phenylphenol, sodium; Dowicide A).  
T various mycoses and wood-destroying fungi;  
NT *Macrosporium sarcinaeforme*. 283, 289, 656, 667.
- 588-952-1218.  
Phenol, m-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ .  
T wood-destroying fungi. 656.
- 588-952-1218.  
Phenol, p-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ .  
T wood-destroying fungi. 655, 656.
- 591-671-951-1011.  
o-Phenetidine;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 591-671-951-1021.  
o-Anisidine;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 591-691-991-1013-1321.  
Triethylamine, 2-decyloxy-, hydrohalide;  $\text{C}_{10}\text{H}_{21}\text{OC}_2\text{H}_4\text{N}(\text{C}_2\text{H}_5)_3\text{HX}$ . (Diethyl-(decyl- $\gamma$ -ethyl) ammonium halide). 352P.
- 591-696-993-1011-1033-1321.  
Ammonium halide, trimethyl(octyloxyethyl)-;  $\text{C}_8\text{H}_{17}\text{OC}_2\text{H}_4\text{N}(\text{CH}_3)_3\text{X}$ . 352P.
- 591-841-993-1011.  
Ether, bromoethyl octyl;  $\text{C}_8\text{H}_{17}\text{OC}_2\text{H}_4\text{Br}$ . (Octyloxyethyl bromide). 352P.
- 591-851-952.  
Ether, 3-chlorophenyl phenyl;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (Monochlorometaphenylphenolate).  
T wood-destroying fungi. 656.
- 591-924-1045-1177-1450.  
Naphthalene, octahydromethoxy-, mercurised, CU;  $\text{C}_{10}\text{H}_8(\text{OCH}_3)_2\text{HgX}$ .  
Grain disinfectant. 281P.
- 591-951-1001.  
Ether, butyl phenyl;  $\text{C}_4\text{H}_9\text{OC}_6\text{H}_5$ . (Butyl phenolate).  
T several species wood-destroying fungi. 657.
- 591-951-1001-1021.  
Ether, butyl tolyl, CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_4\text{H}_9$ . (Butyl cresolate).  
T several species wood-destroying fungi. 657.
- 591-951-1011-1177-1291.  
Mercuric chloride, phenoxyethyl-;  $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_2\text{HgCl}$ . 1263P.
- 591-952-1003.  
Ether, phenyl isopropylphenyl, CU;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{C}_3\text{H}_7$ . (Isopropyl diphenyl ether).  
NT *Macrosporium sarcinaeforme*. 289.
- 591-1002.  
Butyl ether;  $\text{C}_4\text{H}_9\text{OC}_4\text{H}_9$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 591-1012.  
Ethyl ether;  $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$ . (Ethoxyethane; diethyl ether; ethyl oxide; sulfuric ether).  
NT *Trichoderma lignorum*. 804.
- 591-1012-1177-1291.  
Mercuric chloride, 2-ethoxyethyl-;  $(\text{CH}_3\text{CH}_2\text{CH}_2\text{OC}_2\text{H}_5)_2\text{Hg}$ . 1263P.
- 591-1021-1177-1291.  
Mercuric chloride, o-methoxyphenyl-;  $\text{CH}_3\text{OC}_6\text{H}_4\text{HgCl}$ . 1238P.
- 592-1013.  
Acetal;  $\text{CH}_3\text{CH}(\text{OC}_2\text{H}_5)_2$ . (1,1-Diethoxyethane; acetaldehyde diethyl acetal; ethylidene diethyl ether).  
T *Trichoderma lignorum*. 804.
- 593-843-953-1003.  
Phenol, bromo-, glyceryl derivative, CU;  $\text{CH}_2(\text{OC}_6\text{H}_4\text{Br})\text{CH}(\text{OC}_6\text{H}_4\text{Br})\text{CH}_2(\text{OC}_6\text{H}_4\text{Br})$ . (Glyceryl tribromophenol).  
ST mold fungi at 0.03%. 476.
622.  
Trioxymethylene;  $(\text{CH}_2\text{O})_3$ . (Polyoxymethylene; metaformaldehyde).  
T *Sclerotium rolfsii*. 184P, 804.
- 625-692-1023-1176-1291.  
Reaction product of hydrofuramide and mercuric chloride;  $(\text{C}_4\text{H}_5\text{O})\text{CH}:\text{NCH}(\text{C}_4\text{H}_5\text{O})\text{N}:\text{CH}(\text{C}_4\text{H}_5\text{O})+\text{HgCl}_2$ ?  
T *Diplodia*, *Gibberella*, and *Basiporiopsis* infections of seed corn. 1131P.
- 625-950.  
Dibenzofuran;  $\text{C}_{12}\text{H}_8\text{OC}_2\text{H}_4$ . (Biphenylene oxide).  
Seed disinfectant. 183P.
- 625-1177.  
Mercury furan derivative, CU.  
T *Diplodia*, *Gibberella*, and *Basiporiopsis* infections of seed corn. 1131P.
632.  
Ethylene oxide;  $(\text{CH}_2)_2\text{O}$ . (Oxirane).  
Seriously impairs germination of cereal seeds. 1510.
- 650-671-952-1022.  
Toluidine, tolylazo-, CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_5(\text{NH}_2)\text{CH}_3$ . (Amino azo toluene).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 650-952.  
Triasene, diphenyl-, CU;  $\text{C}_6\text{H}_5\text{N}:\text{NNHC}_6\text{H}_5$ ? (Diao-aminobenzene).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 361P.
- 657-951.  
Hydrazine, phenyl-;  $\text{C}_6\text{H}_5\text{NHNH}_2$ .  
T mildew fungi in cotton goods; NT *Macrosporium sarcinaeforme*. 289, 476.
- 665-671-952-1291.  
Aniline, phenylazo-, hydrochloride, CU;  $\text{C}_6\text{H}_5\text{N}:\text{NC}_6\text{H}_5\text{H}_2\text{N}\cdot\text{HCl}$ . (Amino azo benzene hydrochloride).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 667-951-1022.  
Biguanide, phenyl-;  $\text{C}_6\text{H}_5\text{NHC}(\text{NH})\text{NHC}(\text{NH})\text{NH}_2$ .  
T bacteria, mold and the like from impairing gel cellulosic structures; used at 0.1-1.0%. 47A.
- 668-701-1022.  
Guanidine, 1-cyano-;  $\text{NH}_2\text{C}(\text{NH})\text{NHCN}$ . (Dicyandiamide).  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 668-952-1021.  
Guanidine, diphenyl-;  $\text{HN}:\text{C}(\text{NHC}_6\text{H}_5)_2$ .  
ST *Macrosporium sarcinaeforme*. 717, 728.
- 668-953-1021.  
Guanidine, triphenyl-;  $\text{C}_6\text{H}_5\text{N}:\text{C}(\text{NHC}_6\text{H}_5)_2$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 668-1021-1341.  
Guanidine nitrate;  $\text{H}_2\text{NC}(\text{NH})\text{NH}_2\cdot\text{HNO}_3$ .  
NT *Glomerella cingulata*. 1420A.
- 671-691-896-952-1025-1030-1291.  
Auramine;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{C}(\text{NH}_2):\text{C}_6\text{H}_4:\text{N}(\text{Cl})(\text{CH}_3)_2$ . (Apyonin, yellow pyocyanin).  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and mildew on grapes. 289, 950.
- 671-691-953.  
p-Phenylenediamine, N,N-diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{NC}_6\text{H}_4\text{NH}_2$ . (Diphenylparaphenylenediamine).



- T conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 671-730-950.  
Quinoline, 5-amino-;  $H_2NC_6H_4N$ .  
HT at 0.3% and ST mold fungi at 0.1%. 478.
- 671-851-951.  
Aniline, *o*-chloro-;  $ClC_6H_4NH_2$ .  
T wood-destroying fungi but too volatile as wood preservative. 60.
- 671-851-951.  
Aniline, *m*-chloro-;  $ClC_6H_4NH_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-851-951.  
Aniline, *p*-chloro-;  $ClC_6H_4NH_2$ .  
T wood-destroying fungi and mildew fungi in cotton goods; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289, 476.
- 671-851-1113-1177.  
Arsine oxide, *p*-aminophenyl-, mercurized. 1345P.
- 671-852-951.  
Aniline, 2,4-dichloro-;  $Cl_2C_6H_3NH_2$ .  
T wood-destroying fungi. 60.
- 671-852-951.  
Aniline, 2,5-dichloro-;  $Cl_2C_6H_3NH_2$ .  
T *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 671-852-951.  
Aniline, 2,4,6-trichloro-;  $Cl_3C_6H_2NH_2$ .  
T wood-destroying fungi. 60.
- 671-924.  
1-Naphthylamine;  $C_{10}H_7NH_2$ . ( $\alpha$ -Naphthylamine).  
ST mildew fungi in cotton and *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 476, 728.
- 671-924.  
2-Naphthylamine;  $C_{10}H_7NH_2$ . ( $\beta$ -Naphthylamine).  
ST mildew fungi in cotton. 476.
- 671-951.  
Aniline;  $C_6H_5NH_2$ . (Phenylamine; aminobenzene).  
T *Fusarium cubense* at 0.25% and T molds and other fungi as spray. 121P, 1420A.
- 671-951-1021.  
*o*-Toluidine;  $CH_3C_6H_4NH_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-951-1021.  
*p*-Toluidine;  $CH_3C_6H_4NH_2$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 671-951-1022.  
3,5-Xyldine?;  $(CH_3)_2C_6H_3NH_2$ . (*m*-Xyldine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-951-1022.  
Xyldine. CU;  $(CH_3)_2C_6H_3NH_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-951-1113.  
Benzenearsinic acid, *p*-amino-;  $H_2NC_6H_4AsO_3H_2$ . (*p*-Aminophenylarsinic acid).  
ST mold fungi at 0.02%. 476.
- 671-951-1113-1218.  
Atoxyl;  $NH_2C_6H_4AsO_3HNa$ . (Sodium arsindio acid).  
Nearly as T to germinating grain as to fungus itself; formerly used in protozoal diseases but abandoned because of high toxicity. 74.
- 671-951-1113-1350.  
Arobenzene, 4-amino-?;  $H_2NC_6H_4AsO_3?$  (4 Amino-phenylarsonic oxide).  
Nearly as T to germinating grain as to fungus itself. 74.
- 671-951-1142-1312.  
Aniline, copper fluoride compound;  $C_6H_5NH_2.CuF_2$ .  
T several species wood-destroying fungi. 655.
- 671-951-1142-1389.  
Aniline, copper sulphate compound;  $C_6H_5NH_2.CuSO_4$ .  
T several species wood-destroying fungi. 655.
- 671-951-1177-1291.  
Aniline hydrochloride, *p*-chloromercuri-;  $ClH_2C_6H_4NH_2.HCl$ . (Hydrochloride of *p*-aminophenyl mercurio chloride).  
Seed treatment. 1215P.
- 671-951-1389.  
Aniline sulphate;  $(C_6H_5NH_2)_2.H_2SO_4$ .
- Injected into chestnut trees for blight control. 178, 1213B.
- 671-952.  
2-Biphenylamine;  $C_6H_5C_6H_4NH_2$ . (*o*-Aminodiphenyl).  
T *Sclerotinia sclerotiorum* at 1-10,000; NT *Macrosporium sarcinaeforme*. 289, 728.
- 671-952.  
Xenylamine;  $C_6H_5C_6H_4NH_2$ . (*p*-Aminodiphenyl).  
T *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 671-952-1021-1113.  
Araic acid, aminophenylbenzyl-, CU;  $H_2NC_6H_4As-(CH_2C_6H_5)(OH)O$ . 1099P.
- 671-961.  
Cyclohexylamine;  $C_6H_{11}NH_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-999.  
Dodecylamine;  $C_{12}H_{25}NH_2$ . (Laurylamine). 593P.
- 671-1001.  
Butylamine;  $C_4H_9NH_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-1021.  
Methylamine;  $CH_3NH_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 672-681-952.  
Diphenylamine, 2,4-diamino-;  $(H_2N)_2C_6H_3NHC_6H_5$ . (2,4-Diaminodiphenylamine; oxynone).  
HT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 287, 289, 578, 717, 1187.
- 672-681-953.  
2-Biphenylamine, *N*-(2,4-diaminophenyl)-;  $(H_2N)_2C_6H_3NHC_6H_4C_6H_5$ . (2',4'-Diamino-2-phenyldiphenylamine).  
T conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 672-696-732-950-951-1023-1291.  
Safranine;  $C_{20}H_{19}ClN_4$ . (Diamino-phenyl-diphenazonium chloride).  
Results encouraging but not conclusive against mildew on grapevines. 950.
- 672-951.  
*o*-Phenylenediamine;  $C_6H_4(NH_2)_2$ . (1,2-Benzenediamine).  
T wood-destroying fungi. 60.
- 672-951.  
*m*-Phenylenediamine;  $C_6H_4(NH_2)_2$ . (1,3-Benzenediamine).  
ST mildew fungi in cotton. 476.
- 672-951.  
*p*-Phenylenediamine;  $C_6H_4(NH_2)_2$ . (1,4-Benzenediamine).  
T *Macrosporium sarcinaeforme*; ST mildew fungi on cotton; NT *Sclerotinia fructicola*. 289, 476, 717.
- 672-951-1021.  
2,4-Toluenediamine;  $CH_3C_6H_3(NH_2)_2$ . (2,4-Diaminotoluene).  
ST *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 672-952.  
Benzidine;  $HN(C_6H_4)_2C_6H_4NH_2$ . (4,4'-Diaminodiphenyl).  
ST mildew fungi on cotton; NT *Sclerotinia sclerotiorum* at 1-10,000. 476, 728.
- 672-952-1291.  
Benzidine hydrochloride;  $NH_2C_6H_4C_6H_4NH_2.HCl$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 672-975-1021.  
Methane, diaminodiaryl-. (Diamino-diaryl methane of the benzene series). 721P.
- 672-1011-1142-1291.  
Copper ethylenediamine chloride;  $H_2NCH_2CH_2NH_2.CuCl_2$ .  
T spores of *Venturia inaequalis*. 905.
- 672-1011-1142-1389.  
Copper ethylenediamine sulphate;  $H_2NCH_2CH_2NH_2.CuSO_4$ .  
T spores of *Venturia inaequalis*. 905.
- 681-844-952.  
Diphenylamine, 3,3',5,5'-tetrabromo-;  $(Br_2C_6H_3)_2NH$ .  
ST conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.

- 681-851-952.  
Diphenylamine, 4-chloro-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_5$ .
- 681-854-932.  
NT *Glomerella cingulata*. 831.  
Diphenylamine, 3,3',5,5'-tetrachloro-;  $(\text{Cl}_3\text{C}_6\text{H}_3)_2\text{NH}$ .  
NT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 681-924-951.  
2-Naphthylamine, *N*-phenyl-;  $\text{C}_{10}\text{H}_7\text{NHC}_6\text{H}_5$ . (Phenyl  $\beta$ -naphthyl amine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 681-951-1021.  
Aniline, *N*-methyl-;  $\text{C}_6\text{H}_5\text{NHCH}_3$ .  
ST mildew fungi on cotton. 476.
- 681-952.  
Diphenylamine;  $(\text{C}_6\text{H}_5)_2\text{NH}$ .  
ET conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578.
- 681-952-1021.  
Benzylamine, *N*-phenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{NHC}_6\text{H}_5$ ? (Benzyl aniline).  
T wood-destroying fungi. 60.
- 681-952-1022.  
Ditolylamine, CU;  $(\text{CH}_3\text{C}_6\text{H}_4)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 681-952.  
Dicyclohexylamine;  $(\text{C}_6\text{H}_{11})_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 681-994.  
Diocetylamine;  $(\text{C}_8\text{H}_{17})_2\text{NH}$ .  
T *Macrosporium sarcinaeforme*. 289.
- 681-1000.  
Diarylamine;  $(\text{C}_6\text{H}_{11})_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 681-1002.  
Dibutylamine;  $(\text{C}_4\text{H}_9)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 681-1022.  
Dimethylamine;  $(\text{CH}_3)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 681-1027-1177.  
R-Hg-NH-R'.  
Wherein R is an unsubstituted hydrocarbon radical and the group -NH-R' is a monovalent organic residue in which a C atom of the radical R' is directly attached to N.  
Seed disinfectant. 811P.
- 682-924-951.  
*p*-Phenylenediamine, *N,N'*-di-2-naphthyl-;  $\text{C}_{10}\text{H}_4(\text{NHC}_{10}\text{H}_7)_2$ . (Di- $\beta$ -naphthyl *p*-phenylenediamine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 691-696-953-1014-1021-1030-1389.  
Brilliant green;  $[(\text{C}_2\text{H}_5)_2\text{NC}_6\text{H}_4\text{C}(\text{C}_6\text{H}_5):\text{C}_6\text{H}_4:\text{N}(\text{C}_2\text{H}_5)_2]_2\text{SO}_4$ .  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and mildew on grapes. 289, 950.
- 691-696-953-1025-1030-1291.  
Methyl green;  
 $\text{Cl}(\text{CH}_3)_2\text{N}:\text{C}_6\text{H}_4:\text{C}(\text{C}_6\text{H}_4\text{N}(\text{CH}_3)_2\text{Cl})\text{C}_6\text{H}_4\text{N}(\text{CH}_3)_2$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 691-696-953-1025-1030-1291.  
Malachite green;  
 $(\text{CH}_3)_2\text{N}:\text{C}_6\text{H}_4\text{C}(\text{C}_6\text{H}_5)\text{C}_6\text{H}_4:\text{N}(\text{CH}_3)_2\text{Cl}$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 691-696-989-999-1014-1030-1276.  
Ammonium bromide, 2-butenyl(diethylaminoethyl)-dodecylethyl-;  
 $(\text{C}_2\text{H}_5)_2\text{NC}_6\text{H}_4\text{N}(\text{CH}_2\text{CH}:\text{CHCH}_2)(\text{C}_2\text{H}_5)(\text{C}_{12}\text{H}_{25})\text{Br}$ .  
Ethylerythridiethylaminoethyl-dodecyl ammonium bromide. 351P.
- 691-696-989-1011-1024-1321.  
Ammonium halide, (dodecylmethylaminoethyl) trimethyl-;  $\text{C}_{12}\text{H}_{25}\text{N}(\text{CH}_3)(\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2)\text{X}$ . 352P.
- 691-696-991-1011-1024-1321.  
Ammonium halide, (decylmethylaminoethyl) trimethyl-;  $\text{C}_{10}\text{H}_{21}\text{N}(\text{CH}_3)(\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2)\text{X}$ . 352P.
- 691-951-1012.  
Aniline, *N,N*-diethyl-;  $\text{C}_6\text{H}_5\text{N}(\text{C}_2\text{H}_5)_2$ . Diethyl aniline).  
NT *Macrosporium sarcinaeforme*. 289.
- 691-951-1022.  
Aniline; *N,N*-dimethyl-;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_3)_2$ . (Dimethyl aniline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 691-951-1022-1177-1291.  
Aniline, *p*-chloromercuri-*N,N*-dimethyl-, hydrochloride;  $\text{ClH}_2\text{C}_6\text{H}_4\text{N}(\text{CH}_3)_2\text{HCl}$ . (Hydrochloride of *p*-dimethylaminophenyl mercuric chloride).  
Seed treatment. 1215P.
- 691-952-1011-1021.  
Benzylamine, *N*-ethyl-*N*-phenyl-;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_2\text{C}_6\text{H}_5)\text{C}_2\text{H}_5$ . (Ethyl benzyl aniline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 691-983-1022.  
Octadecylamine, *N,N*-dimethyl-;  $\text{CH}_3(\text{CH}_2)_{17}\text{N}(\text{CH}_3)_2$ . (Dimethyloctadecylamine).  
Bactericide. 349P.
- 691-989.  
Tridodecylamine;  $[\text{CH}_3(\text{CH}_2)_{11}]_3\text{N}$ . (Trilaurylamine). 593P.
- 691-1002.  
Tributylamine;  $(\text{C}_4\text{H}_9)_3\text{N}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 691-1023.  
Trimethylamine;  $(\text{CH}_3)_3\text{N}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 692-696-953-1025-1030-1291.  
Methyrosaniline;  $[(\text{CH}_3)_2\text{NC}_6\text{H}_4]_2\text{C}:\text{C}_6\text{H}_4:\text{NXCH}_3\text{Cl}$ .  
X = H or  $\text{CH}_3$ . (Gentian violet; methyl violet; crystal violet; aniline violet).  
T *Trichophyton* fungus and also other mycoses. 283.
- 692-730-950-1024-1244-1291.  
Acridine orange;  $(\text{CH}_3)_2\text{NC}_{10}\text{H}_7\text{N}[\text{N}(\text{CH}_3)_2]\text{HCl} + \text{ZnCl}_2$ .  
Results encouraging but not conclusive against mildew on grapevines. 950.
- 696-781-989-1023-1321.  
Ammonium halide, dodecyl(dodecylthiomethyl)-dimethyl-. 352P.
- 696-781-993-1013-1021-1321.  
Ammonium halide, diethylmethyl(octylthioethyl)-. 352P.
- 696-781-1027-1321.  
Quaternary ammonium halides containing only one quaternary nitrogen atom which is once substituted by an alkylthioalkyl group of 8 to 20 carbon atoms and which quaternary nitrogen atom is otherwise substituted only by saturated lower alkyl groups as organic substituents and by the anion of a hydrohalic acid;  $\text{RSCnH}_{2n}\text{NR}'\text{R}''\text{X}$ . 1384P.
- 696-951-989-1004-1021-1033-1276.  
Ammonium bromide, diallylbensyldodecyl-;  $\text{N}(\text{C}_6\text{H}_5)_2(\text{CH}_2\text{C}_6\text{H}_5)(\text{C}_{12}\text{H}_{25})\text{Br}$ . 351P.
- 696-951-989-1011-1022-1276.  
Ammonium bromide, bensyldodecylethylmethyl-;  $\text{N}(\text{CH}_2\text{C}_6\text{H}_5)(\text{C}_{12}\text{H}_{25})(\text{C}_6\text{H}_5)(\text{CH}_2)\text{Br}$ . 351P.
- 696-951-989-1012-1021-1276.  
Ammonium bromide, bensyldiethyloctyl-;  $\text{N}(\text{CH}_2\text{C}_6\text{H}_5)(\text{C}_2\text{H}_5)_2(\text{C}_8\text{H}_{17})\text{Br}$ . 351P.
- 696-989-1002-1003-1030-1276.  
Ammonium bromide, allyldibutyl-dodecyl-;  $\text{N}(\text{C}_2\text{H}_5)_2(\text{C}_4\text{H}_9)_2(\text{C}_{12}\text{H}_{25})\text{Br}$ . 351P.
- 696-989-1011-1024-1276.  
Ammonium bromide, ethylsnebis [dodecyl-dimethyl-];  $[(\text{CH}_3)_2\text{N}(\text{C}_{12}\text{H}_{25})(\text{Br})(\text{CH}_2)_2]_2$ . 349P.
- 696-989-1023-1321.  
Ammonium halide, dodecyltrimethyl-;  $\text{C}_{12}\text{H}_{25}\text{N}(\text{CH}_3)_3\text{X}$ . 352P.
- 696-1027-1321.  
Ammonium halide, tetraalkyl-;  $\text{R}_4\text{NX}$ . (Trialkyl-ammoniumalkyl halide). 349P.
- 696-1045-1450.  
Quaternary polyammonium compounds containing, at

- attached to a quaternary nitrogen atom which is connected with another quaternary nitrogen atom by a lower aliphatic radical, at least one aliphatic hydrocarbon radical from 8 to 18 carbon atoms, and containing upon each quaternary nitrogen atom an anion selected from the group consisting of the hydroxyl anion and the anions of mineral and carboxylic acids, the excess valences of the nitrogen atoms being satisfied by radicals selected from the group consisting of alkyl, alkenyl, and aralkyl radicals. 1383P.
- 696-1450.  
 Quaternary ammonium salts such as the chlorides, sulfates, alkyl sulfates, phosphates, bromides, iodides, fluorides, formates, acetates, lactates, citrates, thiocyanates, salicylates, etc. 144P.
- 700-951-1011.  
 Aniline, N-ethylidene-;  $C_6H_5N:CHCH_3$ . (Ethylidene aniline).  
 NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 700-1045-1177.  
 Mercury derivatives of imides. 786P.
- 701-851-1021.  
 Cyanogen chloride;  $CNCl$ . (Chlorine cyanide).  
 T some species *Fusarium*, *Ascochyta*, *Colletotrichum* and *Sclerotium*. 804, 1041.
- 701-988.  
 Tridecanenitrile;  $C_{13}H_{25}CN$ . (Lauryl cyanide). 593P.
- 701-1045.  
 Nitriles. (Cyano compounds)  
 Specially pronounced fungicidal effect. 1023P.
- 702-951-1021.  
 Phthalonitrile;  $C_6H_4(CN)_2$ .  
 NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
730.  
 Pyridine;  $C_5H_5N$ .  
 T wood-destroying fungi; NT *Fusarium cubense* at 1%, 60, 655, 1420A.
- 730-740-1021-1142-1405.  
 Copper thiocyanate, nicotine complex;  $Cu(CNS)_2 \cdot C_{10}H_8N_2$ . (Copper nicotine thiocyanate).  
 T *Macrosporium sarcinaeforme*. 717.
- 730-851-950-1023.  
 Quinoline, 7-chloro-2,3-dihydro-2,2,4-trimethyl-;  $Cl-(C_5H_4N)(CH_3)_3$ .  
 T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 730-950.  
 Quinoline;  $C_9H_7N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950.  
 Isoquinoline;  $C_9H_7N$ . (Benzo [c] pyridine; 2-benzasine; leucoline).  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950.  
 Acridine;  $C_{13}H_9N$ .  
 T *Fusicladium* and *Peronospora*. 89P.
- 730-950-1003-1022.  
 Quinoline, 2,3-dimethyl-8-propyl-;  $C_9H_7(CH_3)_2C_3H_7$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1011-1022.  
 Quinoline, 2,3-dimethyl-8-ethyl-;  $(CH_3)_2C_9H_5C_2H_5N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
 Quinaldine;  $CH_3C_9H_6N$ . (2-Methylquinoline).  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
 Lepidine;  $CH_3C_9H_6N$ . (4-Methylquinoline).  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
 Quinoline, 6-methyl-;  $CH_3C_9H_6N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
 Quinoline, 7-methyl-;  $CH_3C_9H_6N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
 Quinoline, 8-methyl-;  $CH_3C_9H_6N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
 Quinoline, 2,4-dimethyl-;  $(CH_3)_2C_9H_5N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
 p-Toluquinoline;  $(CH_3)_2C_9H_5N$ . (2,6-Dimethylquinoline; 6-methylquinoline).  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
 Quinoline, 2,3,8-trimethyl-;  $(CH_3)_3C_9H_4N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
 Quinoline, 2,4,8-trimethyl-;  $(CH_3)_3C_9H_4N$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
 Quinoline, dihydro-2,2,4-trimethyl-, CU;  $(CH_3)_3C_9H_6N$ .  
 T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 730-950-1022.  
 Quinoline, dihydrotrimethyl-, polymerised.  
 NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 730-950-1024.  
 Quinoline, 2,3,4,8-tetramethyl-;  $(C_5H_4N)(CH_3)_4$ .  
 T *Phymatotrichum omnivorum*. 1162.
- 730-950-1389.  
 Quinoline sulfate;  $(C_9H_7N)_2H_2SO_4$ .  
 Injected into elm trees for control of *Grapthium ulmi*. 821.
- 730-1023.  
 Pyridine, trimethyl-, CU;  $(C_5H_5N)(CH_3)_3$ . ( $\gamma$ -Collidine). 934P.
- 730-1177-1291.  
 Pyridine, 3-chloromercuri;  $(C_5H_4N).HgCl$ . (3-Pyridylmercuric chloride).  
 T as mildewproofing agent and seed disinfectant. 814.
- 732-1333.  
 Piperazine, diiodo-;  $(C_4H_8N_2)I_2$ .  
 More effective as bactericide than fungicide. 110, 1141P.
733.  
 Hexamethylenetetramine;  $C_6H_{12}N_4$ . (Hexamine, urotropine, aminoforn).  
 MT mold fungi at 0.5%. 476.
- 733-1021.  
 Triazine, methyl-;  $(C_5H_3N_3)CH_3$ . (Monomethyltriazine). 361P.
- 733-1022.  
 Triazine, dimethyl-;  $(C_5HN_3)(CH_3)_2$ . 361P.
- 733-1176.  
 Hexamethylenetetramine and a mercurial salt.  
 Disinfectant for corn and like seeds. 1125P.
- 733-1333.  
 Hexamethylenetetramine, tetraiodo-. (Tetraiodomethanamine).  
 T *Microsporum lanosum* at 1-5,000. 110, 283, 1141P, 1272.
- 740-874.  
 Pyrrole, tetraiodo-;  $(C_4HN)I_4$ . (Pyrrol tetraiodide; iodol; iodopyrrole). 110, 1141P.
- 740-950.  
 Carbasole;  $C_{12}H_9N$ . (Dibensopyrrole; diphenylamine). 183P.
- 740-950-984-1023-1389.  
 Indolinium methylsulfate, 2,3-dihydro-2-heptadecyl-1,1-dimethyl-;  $C_{17}H_{35}C_2H_4N(CH_3)_2SO_3CH_3$ .  
 Also strong bactericide. 520P.
- 740-1001.  
 Pyrrolidine, butyl-, CU;  $C_4H_8(C_4H_9N)$ .  
 Used as spray, T molds and other fungus. 121P.
- 742-951.  
 Imidasole, 2-phenyl-;  $(C_6H_5N_2)C_6H_5$ . (2-Phenylglyoxaline).  
 HT mold fungi at 0.3% and MT at 0.1%. 476.
- 770-1021-1027-1030.  
 Trithiocarbonates, alkene;  $RSC(S)SH$ . 56P.
- 781-952.  
 Phenyl sulphide;  $(C_6H_5)_2S$ . (Diphenyl sulfide); benzene sulfide).  
 Used as dust to destroy *Puccinia graminis*. 387P 1178.
- Carbon disulfide—see 1128-1392.
- 781-1045.  
 Sulfides, organic. 1389P.
- 781-1045.  
 Thio-ethers, (reaction product). 1139P.

- 782-952-1022.  
Benzyl disulfide;  $C_6H_5CH_2SSCH_2C_6H_5$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 791-951-1142.  
Phenol thio-, copper derivative?  $(C_6H_5S)_2Cu$ ? (Copper sulfophenate).  
MT bunt spore. 1096.
- 791-952-1021-1177.  
p-Toluenethiol, phenylmercury derivative;  $C_6H_5HgSC_6H_4CH_3$ . (p-Thiocresol, mercury salt). 368P.
- 791-952-1177.  
Benzenethiol, phenylmercury derivative;  $C_6H_5HgSC_6H_5$ . (Thiophenol, mercury salt). 368P.
- 791-989.  
Dodecanethiol;  $C_{12}H_{25}SH$ . (Lauryl mercaptan). 593P.
- 791-989-1045.  
Sulfides, dodecyl-;  $C_{12}H_{25}SR$ . (Lauryl thioethers). 593P.
- 791-1027-1045-1113.  
Arsinic acids, alkyl-, thio derivative;  $AlkAs(SR')SR''$ .  
Used to immunise seed grain. 364P, 382P, 1129P.
- 791-1027-1045-1113-1392.  
Arsinic acids, alkyl-, thio derivative;  $AlkAs(SH)SR'$ .  
Used to immunise seed grain. 364P, 382P, 1129P.
- 821-1333.  
p-Dithiane, 1,1,4,4-tetraiodo-;  $(C_4H_8S_2)_4$ . (Diethylenedisulfide-tetraiodide).  
Used in parasitic skin diseases. 110, 248.
- 825-1011-1177-1291.  
Thiophene, 2-chloromercuri-5-ethyl-;  $C_2H_4(C_4H_3S)HgCl$ .  
Seed disinfectant. 789P, 1178.
- 825-1021-1177-1291.  
Thiophene, 2-chloromercuri-5-methyl-;  $CH_3(C_4H_3S)HgCl$ . (Thiophene, 5-chloromercuri-2-methyl).  
Seed disinfectant. 789P, 1178.
- 825-1022-1177-1291.  
Thiophene, 2-chloromercuri-4,5-dimethyl-;  $(CH_3)_2(C_4H_3S)HgCl$ .  
Seed disinfectant. 789P, 1178.
- 825-1177.  
Mercury, di-2-thienyl-;  $(C_4H_3S)_2Hg$ .  
Seed disinfectant. 789P, 1178.
- 825-1177-1391.  
Thiophene, 2-chloromercuri-;  $(C_4H_3S)HgCl$ .  
Used as dust, gives control of seed-borne diseases. 789P, 1178.
- 841-989.  
Dodecane, 1-bromo-;  $CH_3(CH_2)_{10}CH_2Br$ . (Lauryl bromide; dodecyl bromide). 593P.
- 842-1011.  
Ethane, 1,2-dibromo-;  $CH_2BrCH_2Br$ . (Ethylene dibromide; ethylene bromide; glycol dibromide).  
T leaf mold; also used as fumigant. 1304.
- 851-924.  
Naphthalene, 1-chloro-;  $C_{10}H_7Cl$ . ( $\alpha$ -Chloronaphthalene).  
T wood-destroying fungi; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289.
- 851-924.  
Naphthalene, 2-chloro-;  $C_{10}H_7Cl$ . ( $\beta$ -Chloronaphthalene). 888P.
- 851-951.  
Benzene, chloro-;  $C_6H_5Cl$ .  
T as wood preservative but too volatile; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289.
- 851-951-1021.  
Toluene, chloro-, CU;  $CH_3C_6H_4Cl$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 717.
- 851-951-1021.  
Toluene,  $\alpha$ -chloro-;  $C_6H_5CH_2Cl$ . (Benzyl chloride).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 851-951-1045-1113.  
Arsinic acid, chlorophenyl-, CU;  $ClC_6H_4As(OR) \cdot O$ . 1098P.
- 851-952-1021-1113.  
Arsinic acid, chlorophenylbenzyl-, CU;  $ClC_6H_4As(CH_2C_6H_5)(OH) \cdot O$ . 1098P.
- 851-952-1270.  
Boric acid, tris(4-chloro-2-biphenyl) ester;  $B[OC_6H_3Cl_2]_3$ . (Tri-(2-phenyl-4-chlorophenyl) borate).  
Useful in preparation of fungicidal and germicidal compositions. 1113P.
- 851-1001.  
Butane, 1-chloro-;  $C_4H_9Cl$ . (Butyl chloride).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 851-1001-1030.  
Propene, 3-chloro-2-methyl-;  $CH_2:C(CH_3)CH_2Cl$ . (1-Chloro-2-methyl-2-propene).  
Used as fumigant. 57P.
- 852-924.  
Naphthalene, dichloro-, CU;  $C_{10}H_6Cl_2$ . (Dichloronaphthalene).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 852-951.  
Benzene, o-dichloro-;  $C_6H_4Cl_2$ .  
T hyphae of *Sclerotium rolfsii* and several species wood-destroying fungi; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 655, 657, 804.
- 852-951.  
Benzene, m-dichloro-;  $C_6H_4Cl_2$ .  
T hyphae of *Sclerotium rolfsii* and wood-destroying fungi; NT *Fusarium cubense*, in soil at 1%. 804, 1420A.
- 852-951.  
Benzene, p-dichloro-;  $C_6H_4Cl_2$ .  
T hyphae of *Sclerotium rolfsii* and downy mildew of tobacco; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 804, 1105.
- 852-1001.  
Butane, 2,3-dichloro-;  $CH_3CHClCHClCH_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 852-1011-1030.  
Ethylene, dichloro-, CU;  $C_2H_2Cl_2$ . (Acetylene dichloride). 320.
- 853-951.  
Benzene, 1,2,3-trichloro-;  $C_6H_3Cl_3$ .  
ST wood-destroying fungi. 656.
- 853-951.  
Benzene, 1,2,4-trichloro-;  $C_6H_3Cl_3$ .  
T wood-destroying fungi. 60, 656.
- 853-951.  
Benzene, 1,3,5-trichloro-;  $C_6H_3Cl_3$ .  
NT wood-destroying fungi. 656, 888P.
- 853-951.  
Benzene, trichloro-, CU;  $C_6H_3Cl_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 853-1011.  
Ethane, 1,1,2-trichloro-;  $CH_3ClCHCl_2$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 853-1011-1030.  
Ethylene, trichloro-;  $CHCl:CCl_2$ . (Ethynyl trichloride). 320, 1610.
- 853-1021.  
Chloroform;  $CHCl_3$ .  
T *Trichoderma lignorum*. 183P, 804.
- 854-924.  
Naphthalene, tetrachloro-, CU;  $C_{10}H_4Cl_4$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 890P.
- 854-951.  
Benzene, 1,2,3,4-tetrachloro-;  $C_6H_2Cl_4$ .  
ST wood-destroying fungi. 656.
- 854-951.  
Benzene, 1,2,4,5-tetrachloro-;  $C_6H_2Cl_4$ .  
ST wood-destroying fungi. 656.
- 854-951.  
Benzene, tetrachloro-, CU;  $C_6H_2Cl_4$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 854-1011.  
Ethane, tetrachloro-, CU;  $C_2H_2Cl_4$ . (Acetylene tetrachloride). 320.
- 854-1011-1030.  
Ethylene, tetrachloro-;  $CCl_2:CCl_2$ . (Tetrachloroethylene).  
NT *Macrosporium sarcinaeforme*. 289, 320.

- 854-1031.  
Carbon tetrachloride;  $\text{CCl}_4$ .  
NT *Fusarium cubense*. 1430A.
- 855-951.  
Benzene, pentachloro-;  $\text{C}_6\text{H}_5\text{Cl}_5$ .  
ST wood-destroying fungi. 656.
- 855-1011.  
Ethane, pentachloro-;  $\text{CHCl}_2\text{CCl}_3$ . 320.
- 856-924.  
Naphthalene, hexachloro-, CU;  $\text{C}_{10}\text{H}_6\text{Cl}_6$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 856-951.  
Benzene, hexachloro-;  $\text{C}_6\text{Cl}_6$ .  
ST wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 289, 656.
- 857-951-1021.  
Toluene, heptachloro-, CU;  $\text{C}_7\text{HCl}_7$ . 365P.
- 857-982.  
Biphenyl, chlorinated, CU.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 861-1001.  
Butane, fluoro-, CU;  $\text{C}_4\text{H}_9\text{F}$ . (Monofluorobutane). 245P.
- 862-952-1011.  
Ethane, 1,2-difluoro-1,1-diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{CFCH}_2\text{F}$ . ( $\alpha,\alpha$ -Diphenyl- $\alpha,\beta$ -difluoroethylene). 813P.
- 862-1001.  
Butane, difluoro-, CU;  $\text{C}_4\text{H}_8\text{F}_2$ . 345P.
- 881-999-1030.  
1-Butene, 3-halo-3-methyl-;  $\text{CH}_3\text{:CHC}(\text{CH}_3)(\text{X})\text{-CH}_3$ . (Apparently incorrectly named 3-Halo-3-methyl-2-butene). 1512P.
- 890-952-1291.  
Iodonum chloride, diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{ICl}$ .  
MT growth of mold fungi at 0.2%. 476.
910.  
Anthracene;  $\text{C}_{14}\text{H}_{10}$ .  
Seed disinfectant; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 183P, 289.
910.  
Phenanthrene;  $\text{C}_{14}\text{H}_{10}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 183P, 289.
912.  
Fluorene;  $\text{C}_{12}\text{H}_{10}$ . (Diphenylenemethane). 183P.
912.  
Acenaphthene;  $\text{C}_{12}\text{H}_{10}$ . (Naphthyleneethylene).  
T several species wood-destroying fungi; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 183P, 289.
924.  
Naphthalene;  $\text{C}_{10}\text{H}_8$ .  
T several species wood-destroying fungi; NT *Fusarium cubense*, in soil, at 1%. 60, 1420A.
924.  
Tetralin;  $\text{C}_{10}\text{H}_{12}$ . (1,2,3,4-Tetrahydronaphthalene).  
ST at nonphytotoxic concentrations; T mold fungi at 0.3%. 476, 904.
924.  
Decalin;  $\text{C}_{10}\text{H}_{18}$ . (Dekalin; decahydronaphthalene).  
NT at 3.0%; T at 4.0% but caused injury to foliage. 901A, 904.
- 924-951-1045-1113.  
Arsinic acid, phenyl-, 2-naphthyl ester;  $\text{C}_{10}\text{H}_7\text{OAs}-(\text{C}_6\text{H}_5)(\text{R})\text{:O}$ . ( $\beta$ -Naphthol ester of phenyl-arsinic acid). 1098P.
- 924-999.  
Naphthalene, amyl-, CU;  $\text{C}_{10}\text{H}_7\text{C}_5\text{H}_{11}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 924-1000.  
Naphthalene, diamyl-, CU;  $\text{C}_{10}\text{H}_6(\text{C}_5\text{H}_{11})_2$ . 289.
- 924-1000.  
Naphthalene, polyamyl-, CU.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 924-1021.  
Naphthalene, 2-methyl-;  $\text{C}_{10}\text{H}_7\text{CH}_3$ . ( $\beta$ -Methylnaphthalene).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 183P, 289.
- 924-1027.  
Naphthalene, alkyl.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 924-1177-1291.  
Naphthalene, 1-chloromercuri-;  $\text{C}_{10}\text{H}_7\text{HgCl}$ . ( $\alpha$ -Naphthylmercuric chloride).  
NT several species wood-destroying fungi. 655.
951.  
Benzene;  $\text{C}_6\text{H}_6$ . (Benzol; benzole; phane).  
T hyphae of *Sclerotium rolfsii*, *Peronospora tabacina*, and as wood preservative but too volatile; NT *Fusarium cubense* at 1.25%. 60, 728, 804, 901A, 1106, 1420A.
- 951-1003.  
Benzene, isopropyl-;  $\text{C}_6\text{H}_5\text{C}_3\text{H}_7$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 951-1012.  
Benzene, diethyl-, CU;  $\text{C}_6\text{H}_4(\text{C}_2\text{H}_5)_2$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 951-1021.  
Toluene;  $\text{C}_6\text{H}_5\text{CH}_3$ . (Methyl benzene; phenyl methane).  
T hyphae of *Sclerotium rolfsii* and as wood preservative but too volatile; NT at 1% to *Fusarium cubense* in soil. 60, 804, 1420A.
- 951-1021-1356.  
Tolyl phosphates, CU;  $(\text{CH}_2\text{C}_6\text{H}_4)_2\text{PO}_4$ . (Tricresyl phosphate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 951-1022.  
Xylene, CU;  $\text{C}_6\text{H}_4(\text{CH}_3)_2$ . (Dimethylbenzene).  
T hyphae of *Sclerotium rolfsii*; NT at 2.25% *Fusarium cubense* in soil. 804, 1420A.
- 951-1022-1177-1291.  
Mercury chloride, *p*-xylyl-;  $(\text{CH}_3)_2\text{C}_6\text{H}_4\text{HgCl}$ .  
T several species wood-destroying fungi. 655.
- 951-1113-1325.  
 $\text{C}_6\text{H}_5\text{AsO}$ . (Name and constitution unspecified).  
Used as mordants for seeds; T several species wood-destroying fungi. 378P, 655.
- 951-1120.  
Boric acid, phenyl-;  $\text{C}_6\text{H}_5\text{B}(\text{OH})_2$ .  
HT mold fungi at 0.06-0.1%. 476.
- 951-1120-1218.  
Boric acid, phenyl-, sodium salt;  $\text{C}_6\text{H}_5\text{B}(\text{OH})\text{ONa}$ ?  
HT mold fungi at 0.06-0.1%. 476.
- 951-1177-1270.  
Boric acid, phenylmercury salt;  $(\text{C}_6\text{H}_5\text{HgO})_2\text{B}$ ? (Phenylmercuric borate).  
T various mycoetes. 283.
- 951-1177-1274.  
Mercury bromate, phenyl-;  $\text{C}_6\text{H}_5\text{HgBrO}_3$ . 19P.
- 951-1177-1288.  
Mercury chlorate, phenyl-;  $\text{C}_6\text{H}_5\text{HgClO}_3$ . 19P.
- 951-1177-1289.  
Mercury perchlorate, phenyl-;  $\text{C}_6\text{H}_5\text{HgClO}_4$ . 19P.
- 951-1177-1291.  
Mercury chloride, phenyl-;  $\text{C}_6\text{H}_5\text{HgCl}$ .  
T several species wood-destroying fungi, *Fomes annosus*, and *Ceratostomella pilifera*. 68, 655.
- 951-1177-1330.  
Mercury iodate, phenyl-;  $\text{C}_6\text{H}_5\text{HgIO}_3$ . 19P.
- 951-1177-1333.  
Mercury iodide, phenyl-;  $\text{C}_6\text{H}_5\text{HgI}$ . (Mercury compound, phenyl-iodide).  
Effective in control of seed-borne diseases. 110, 313P, 941, 1303.
- 951-1177-1341.  
Mercury nitrate, phenyl-;  $\text{C}_6\text{H}_5\text{HgNO}_3$ . (Phenylmercuric nitrate).  
T various mycoetes, several species wood-destroying fungi, *Fomes annosus*, and *Ceratostomella pilifera*. 68, 283, 655.
952.  
Biphenyl;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_5$ . (Diphenyl; phenylbenzene).  
T several species wood-destroying fungi. 60, 183P.
- 952-1021.  
Methane, diphenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_5$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.

- 982-1270.  
Boric acid, tri-2-biphenyl ester;  $B(OC_6H_4C_6H_5)_3$ . (Tri-(2-phenyl-phenyl) borate). 1113P.
- 983-1356.  
Phosphoric acid, phenyl di-2-biphenyl ester;  $(C_6H_5-C_6H_4O)_2PO(C_6H_5O)?$  (Di(o-xenyl)-monophenyl phosphate).  
NT *Macrosporium sarcinaeforme*. 289.
987.  
Cyclohexane;  $C_6H_{10}$ . (1,2,3,4-Tetrahydrobenzene).  
Grain disinfectant; NT *Macrosporium sarcinaeforme*. 281P, 289.
- 987-1021.  
Cyclohexane, methyl-, CU;  $C_7H_{12}$ .  
Grain disinfectant. 281P.
991.  
Cyclohexane;  $C_6H_{12}$ . (Hexahydrobenzene; hexamethylene).  
Fungicide at 7.0% but caused distinct injury. 901A.
- 991-1081.  
Cyclohexane, methyl-;  $(C_6H_{11})CH_3$ . (Hexahydrotoluene; cyclohexylmethane).  
NT at 6.0%; T at 7.0% but caused distinct injury. 901A.
998.  
Dicyclopentadiene;  $(C_5H_8)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 999-1216-1341-1389.  
Silver nitrate-lauryl sulfate complex, CU.  
T late blight of celery and tulip fire; MT potato blight. 1056.
- 1001-1177-1392.  
Mercury sulfide, butyl-;  $[C_4H_9Hg]_2S$ . (Butyl mercuric sulfide).  
Seed disinfectant. 788P.
- 1001-1177-1405.  
Mercury thiocyanate, butyl-;  $C_4H_9HgSCN$ . (Thiocyanic acid, butylmercuric ester).  
T spores of stinking smut. 790P, 1178.
- 1003-1177-1276.  
Mercury bromide, propyl-;  $C_3H_7HgBr$ . (Propyl mercury bromide). 370P.
- 1003-1177-1333.  
Mercury iodide, isopropyl-;  $C_3H_7HgI$ . (Mercury compound, isopropyl-iodide).  
T spores of barley smut. 110, 802.
- 1003-1177-1389.  
Mercury sulfate, propyl-;  $[C_3H_7Hg]_2SO_4$ . (Propyl mercuric sulfate).  
Seed disinfectant. 788P.
- 1004-1124-1356.  
Phosphoric acid, dithio-, diisopropyl ester, cadmium salt?  $[(C_3H_7)_2PO_2S_2]_2Cd$ . (Phosphoric acid, diisopropylidithio-, cadmium salt).  
Seed disinfectant. 959P, 1432.
- 1011-1027-1040-1177.  
Acetylene, bis(alkylmercuri);  $RHgC\equiv CHgR$ . 1251P.
- 1011-1030-1177-1333.  
Mercury iodide, vinyl-;  $CH_2=CHHgI$ . 110, 1097P.
- 1011-1177-1254.  
Mercury arsenate, ethyl-;  $(C_2H_5Hg)_2AsO_4$ . (Ethylmercuriarsenate). 302P.
- 1011-1177-1291.  
Mercury chloride, ethyl-;  $C_2H_5HgCl$ .  
T mildew of roses, bacteriosis of peaches and plums, *Rhizoctonia solani*, black rot of grapes, and potato blight. 370P, 787P, 788P.
- 1011-1177-1303.  
Mercury cyanide, ethyl-;  $C_2H_5HgCN$ . (Ethylmercuricyanide).  
T several species of wood-destroying fungi. 302P, 655.
- 1011-1177-1333.  
Mercury iodide, ethyl-;  $C_2H_5HgI$ .  
T damping-off fungi. 110, 822.
- 1011-1177-1356.  
Mercury phosphate, ethyl-;  $(C_2H_5Hg)_2PO_4$ . (Ethylmercuriphosphate).  
T many seed-borne diseases and several wood-destroying fungi. 802P, 655.
- 1011-1177-1389.  
Mercury sulfate, ethyl-;  $(C_2H_5Hg)_2SO_4$ .  
T mildew of roses, bacteriosis of peaches and plums, *Rhizoctonia solani*, black rot of grapes, late potato blight, and wood-destroying fungi. 655, 787P.
- 1012-1177-1271.  
Mercury tetraborate, ethyl-;  $(C_2H_5Hg)_2B_4O_7$ .  
T several species wood-destroying fungi. 655.
- 1012-1288.  
Carbonic acid, diethyl ester;  $(C_2H_5)_2CO_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 1021-1113-1392.  
Sulfide, methylarsine;  $CH_3AsS$ .  
T spores of barley blight. 364P, 382P, 1129P, 1178.
- 1021-1177-1291.  
Mercury chloride, methyl-;  $CH_3HgCl$ .  
Seed disinfectant. 788P.
- 1021-1177-1333.  
Mercury iodide, methyl-;  $CH_3HgI$ . 515.  
Carbon dioxide—see 1128-1350.
- 1022-1177-1325-1341.  
Mercury nitrate, methyl-, compound with methyl mercury hydroxide;  $CH_3HgNO_3 \cdot CH_3HgOH?$  (Basic methyl mercury nitrate). 803P.
- 1022-1228-1333.  
Thallium iodide, dimethyl-;  $(CH_3)_2TlI$ .  
ST mold fungi at 0.05%. 476.
- 1027-1113-1392.  
Arsenic acid, alkyl-, thio derivative;  $AlkAs_2S$ .  
Immunizes seed grain. 364P, 382P, 1129P.
- 1045-1177-1450.  
Mercury compound of the type  $RHgX$ .  
T mildew of roses, bacteriosis of peaches and plums, *Rhizoctonia solani*, black rot of grapes, and late potato blight; seed disinfectant. 786P, 787P, 788P.
- 1106-1196-1389.  
Aluminum potassium sulfate;  $KAl(SO_4)_2$ . (Potassium alum).  
T *Alternaria solani*; MT mold fungi at 0.5%; NT *Sclerotinia fructicola*. 476, 916A.
- 1106-1218-1312.  
Cryolite;  $AlF_3 \cdot 3NaF$ . (Sodium fluoaluminate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1106-1218-1313.  
Aluminum sodium fluosilicate;  $AlNa(SiF_6)_2$ . (Aluminum sodium silicofluoride).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1106-1312.  
Aluminum fluoride;  $AlF_3$ .  
MT mold fungi at 0.2%. 476.
- 1106-1313.  
Aluminum fluosilicate;  $Al_2(SiF_6)_3$ .  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1106-1325.  
Aluminum hydroxide (paste);  $Al(OH)_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 510, 916A.
- 1106-1350.  
Aluminum oxide;  $Al_2O_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1106-1358.  
Aluminum phosphate;  $AlPO_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1106-1389.  
Aluminum sulfate;  $Al_2(SO_4)_3 \cdot 18H_2O$ .  
T *Fomes annosus* and T mold fungi at 0.36%; ST *Phytophthora infestans*; NT *Sclerotinia fructicola* and *Alternaria solani*. 59, 476, 916A, 1055.
- 1106-1450.  
Aluminum salts, CU.  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
1108.  
Ammonia;  $NH_3$ .  
The introduction of volume concentrations of 5-10 parts per 10,000 lessened decay in wounded oranges inoculated with *Penicillium digitatum*. 804.
- 1108-1142-1288.  
Tetramminecupric carbonate;  $Cu(NH_3)_4CO_3$ . (Cupric ammonia carbonate).  
T leaf mild. 1304.

- 1109-1391-1335.  
Hydroxylamine hydrochloride;  $\text{HCl} \cdot \text{NH}_2\text{OH}$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 1109-1130-1389.  
Ceric ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4 \cdot \text{Ce}(\text{SO}_4)_2$ .  
T late tomato blight; NT *Septoria* tomato blight. 916A.
- 1109-1142-1344-1384.  
Zinc ammoniacal copper silicate.  
T walnut blight but not as effective as Bordeaux mixture. 961.
- 1109-1163-1389.  
Ferrous ammonium sulphate;  $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ .  
T *Fomes annosus*. 59.
- 1109-1163-1389.  
Ferric ammonium sulphate;  $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ .  
T *Fomes annosus*. 59.
- 1109-1172-1354.  
Magnesium ammonium arsenate;  $\text{NH}_4\text{MgAsO}_4 \cdot 6\text{H}_2\text{O}$ .  
T several species wood-destroying fungi. 60.
- 1109-1172-1356.  
Magnesium ammonium phosphate;  $\text{Mg}(\text{NH}_4)\text{PO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1176-1291.  
Ammonobasic mercuric chloride;  $\text{HgNH}_2\text{Cl}$ . (Mercury, ammoniated; mercury chloride ammoniated; white precipitate).  
T nearly all mycoses. 283.
- 1109-1182-1254.  
Nickel arsenate, ammoniated;  $(\text{NH}_4)_2\text{AsO}_4 \cdot \text{Ni}_2(\text{AsO}_4)_2$ ?  
T several species wood-destroying fungi. 60.
- 1109-1182-1389.  
Nickel ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4 \cdot \text{NiSO}_4 \cdot 6\text{H}_2\text{O}$ .  
T *Fomes annosus* and wood-destroying fungi. 59, 60.
- 1109-1218-1356.  
Sodium ammonium phosphate;  $\text{NaNH}_4\text{HPO}_4 \cdot 4\text{H}_2\text{O}$ . (Microcosmic salt).  
T *Fomes annosus*. 59.
- 1109-1244-1312.  
Zinc ammonium fluoride;  $2\text{NH}_4\text{F} \cdot \text{ZnF}_2$ ?  
HT mold fungi at 0.1%. 476.
- 1109-1255.  
Ammonium arsenious trioxide;  $(\text{NH}_4)_2\text{AsO}_3$ ?  
T several species wood-destroying fungi. 655.
- 1109-1286.  
Ammonium hydrogen carbonate;  $\text{NH}_4\text{HCO}_3$ . (Ammonium bicarbonate).  
Found to supply a concentration of ammonia sufficient to lessen decay due to green mold. 804.
- 1109-1286.  
Ammonium carbonate;  $(\text{NH}_4)_2\text{CO}_3 \cdot \text{H}_2\text{O}$ .  
Injected into chestnut trees for blight control; found to supply a concentration of ammonia sufficient to lessen decay due to green mold; NT *Fusarium cubense* at 1%. 175, 804, 1213B, 1420A.
- 1109-1289.  
Ammonium perchlorate;  $\text{NH}_4\text{ClO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1291.  
Ammonium chloride;  $\text{NH}_4\text{Cl}$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1109-1312.  
Ammonium fluoride;  $\text{NH}_4\text{F}$ .  
HT mold fungi at 0.04%. 476.
- 1109-1313.  
Ammonium fluosilicate;  $(\text{NH}_4)_2\text{SiF}_6$ . (Cryptohalite).  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1109-1335.  
Ammonium hydroxide;  $\text{NH}_4\text{OH}$ .  
Injected into chestnut trees for blight control; NT *Fusarium cubense*. 175, 1213B, 1420A.
- 1109-1340.  
Ammonium molybdate;  $(\text{NH}_4)_2\text{MoO}_4$ .  
T *Fomes annosus*. 59.
- 1109-1389.  
Ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4$ .  
Injected into chestnut trees for blight control; T foot-rot and *Sclerotinia sclerotiorum*; NT *Fomes annosus*. 59, 175, 728, 1197, 1213B.
- 1109-1391.  
Ammonium sulfamate;  $\text{H}_2\text{NBSO}_2\text{NH}_4$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 1109-1405.  
Ammonium thiocyanate;  $\text{NH}_4\text{SCN}$ .  
NT *Sclerotinia fructicola*, *Alternaria solani*, and NT *Sclerotinia sclerotiorum* at 1-1,000. 728, 916A.
- 1109-1414.  
Ammonium thiosulphate;  $(\text{NH}_4)_2\text{S}_2\text{O}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1430.  
Ammonium metavanadate;  $\text{NH}_4\text{VO}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
1112.  
Arsine.  $\text{AsH}_3$ . 1041.
- 1112-1350.  
Arsenic trioxide;  $\text{As}_2\text{O}_3$ .  
T wood-destroying fungi; NT *Sclerotinia fructicola* and *Alternaria solani*. 60, 916A.
- 1112-1392.  
Arsenic disulfide;  $\text{As}_2\text{S}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1270.  
Barium borate;  $\text{Ba}(\text{BO}_2)_2$ ? (With or without copper borate). 1115P.
- 1114-1286.  
Barium carbonate;  $\text{BaCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1291.  
Barium chloride;  $\text{BaCl}_2$ .  
Injected into chestnut trees for blight control; NT *Alternaria solani*, *Sclerotinia fructicola*, and *Fomes annosus*. 59, 175, 916A, 1213B.
- 1114-1312.  
Barium fluoride;  $\text{BaF}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1313.  
Barium fluosilicate;  $\text{BaSiF}_6$ .  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1114-1325.  
Barium hydroxide;  $\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1341.  
Barium nitrate;  $\text{Ba}(\text{NO}_3)_2$ .  
MT mold fungi at 0.5%; NT *Sclerotinia fructicola* and *Alternaria solani*. 476, 916A.
- 1114-1351.  
Barium peroxide;  $\text{BaO}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1389.  
Barium sulphate;  $\text{BaSO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1392.  
Barium sulphide;  $\text{BaS}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1392.  
Barium polysulphide;  $\text{BaS}_x$ .  
Fungicidal at ca 0.11% polysulphide sulphur. 581.
- 1118-1341.  
Bismuth oxynitrate;  $\text{BiONO}_2 \cdot \text{H}_2\text{O}$ . (Bismuth basic nitrate).  
NT late and *Septoria* tomato blights. 916A.
- 1118-1356.  
Bismuth phosphate;  $\text{Bi}_2(\text{PO}_4)_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1124-1291.  
Cadmium chloride;  $\text{CdCl}_2$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and several species wood-destroying fungi; MT *Erwinia amylovora*. 60, 779, 916A.
- 1124-1350.  
Cadmium oxide;  $\text{CdO}$ .  
T *Phytophthora infestans*. 1429.

- 1124-1389.  
Cadmium sulphate;  $\text{CdSO}_4$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Fomes annosus*. 59, 916A.
- 1124-1450.  
Cadmium salts, CU.  
T wood-destroying fungi. 60.
- 1126-1142-1291-1350.  
Copper oxale-calcium chloride complex;  $\text{CaCl}_2 \cdot 3\text{CuO} \cdot n\text{H}_2\text{O}$ . 242P.
- 1126-1254.  
Calcium arsenate, CU.  
When containing 0.0505%  $\text{As}_2\text{O}_5$  proved fungicidal;  
T apple scab. 159, 589.
- 1126-1270.  
Calcium borate;  $\text{Ca}(\text{BO}_2)_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1284.  
Calcium carbide;  $\text{CaC}_2$ .  
NT *Fusarium cubense*. 1420A.
- 1126-1294.  
Calcium hypochlorite;  $\text{Ca}(\text{ClO})_2 \cdot \text{CaCl}_2$ .  
ST *Fusarium cubense*. 1420A.
- 1126-1305.  
Calcium cyanamide;  $\text{CaCN}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1312.  
Calcium fluoride;  $\text{CaF}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1313.  
Calcium fluosilicate;  $\text{CaSiF}_6$ .  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1126-1325.  
Calcium hydroxide;  $\text{Ca}(\text{OH})_2$ . (Hydrated lime).  
T downy mildew of hop. 1051.
- 1126-1356.  
Dicalcium hydrogen phosphate;  $\text{CaHPO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1365.  
Calcium hypophosphite;  $\text{Ca}(\text{H}_2\text{PO}_2)_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1389.  
Calcium sulfate;  $\text{CaSO}_4$ . (Gypsum).  
When soaked in  $\text{CH}_2\text{O}$ , it successfully combats parasites harmful to vines; NT *Phymatotrichum* root-rot. 184P, 1387.
- 1126-1392.  
Calcium hydrogen sulphide;  $\text{Ca}(\text{SH})_2$ .  
Non-fungicidal. 903.
- 1126-1392.  
Calcium sulphide;  $\text{CaS}$ .  
T apple diseases. 159, 903.
- 1126-1392.  
Lime-sulphur solution;  $\text{CaSx}$ .  
T many fungi. 991, 1060.
- 1126-1393.  
Calcium hydrogen sulfite;  $\text{Ca}(\text{HSO}_3)_2$ . (Calcium bisulphite).  
Non-fungicidal. 903.
- 1126-1414.  
Calcium thiosulphate;  $\text{CaS}_2\text{O}_3 \cdot 6\text{H}_2\text{O}$ .  
Not highly fungicidal. 903.
- 1128-1350.  
Carbon dioxide.  
T *Botrytis cinerea* and *Rhizopus nigricans*. 804.
- 1128-1392.  
Carbon disulfide.  
NT *Fusarium cubense*. 1058, 1420A.
- 1130-1350.  
Cerous oxide;  $\text{Ce}_2\text{O}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1130-1389.  
Cerous sulphate;  $\text{Ce}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O}$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1130-1389.  
Ceric sulphate;  $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$ .  
T late and *Septoria* tomato blights. 916A.
- 1136-1196-1389.  
Potassium chromium sulfate;  $\text{KCr}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ . (Chrome alum).  
T *Fomes annosus*. 59.
- 1136-1291.  
Chromium chloride;  $\text{CrCl}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1136-1291-1350.  
Chromyl chloride;  $\text{CrO}_2\text{Cl}_2$ .  
Used with nitrogen dioxide, hydrogen peroxide, halogens, etc. 855P.
- 1136-1312.  
Chromium fluoride;  $\text{CrF}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1136-1321-1350.  
Chromyl halide. Seed treatment. 856P.
- 1136-1350.  
Chromium oxide;  $\text{CrO}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1136-1350.  
Chromic sesquioxide;  $\text{Cr}_2\text{O}_3$ .  
NT *Phytophthora infestans*. 1429.
- 1138-1218-1343.  
Sodium cobaltinitrite;  $\text{Na}_2\text{Co}(\text{NO}_2)_6$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1254.  
Cobalt arsenate;  $\text{Co}_2(\text{AsO}_4)_3 \cdot 8\text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1291.  
Cobalt chloride;  $\text{CoCl}_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1341.  
Cobalt nitrate;  $\text{Co}(\text{NO}_3)_2$ .  
T *Fomes annosus*. 59.
- 1138-1350.  
Cobalt oxide;  $\text{CoO}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1389.  
Cobalt sulphate;  $\text{CoSO}_4$ .  
T *Sclerotinia fructicola* and *Alternaria Solani*. 916A.
- 1138-1450.  
Cobalt salts, CU.  
T wood-destroying fungi. 60.
- 1142-1177-1405.  
Copper salt of a complex mercury thiocyanic acid.  
Seed disinfectant. 1066P.
- 1142-1254-1325.  
Copper arsenate, basic;  $\text{Cu}(\text{CuOHAsO}_4)?$   
NT spores of *Macrosporium sarcinaeforme* and *Venturia inaequalis* or *V. pirina*. 905.
- 1142-1254.  
Cupric arsenate;  $\text{Cu}_2(\text{AsO}_4)_2$ .  
T bunt spores. 1096.
- 1142-1260.  
Cupric arsenite;  $\text{CuHAsO}_3?$   
T bunt spores. 1096.
- 1142-1270.  
Copper borate;  $\text{Cu}(\text{BO}_2)_2$ .  
T bunt spores. 482P, 1096, 1115P.
- 1142-1276.  
Cupric bromide;  $\text{CuBr}_2$ .  
T bunt spores. 1096.
- 1142-1286.  
Cupric carbonate;  $\text{CuCO}_3$ .  
T bunt spores, *Sclerotinia fructicola*, *Alternaria solani*, and many seed-borne diseases. 320A, 916A, 1096.
- 1142-1288.  
Copper chlorate;  $\text{Cu}(\text{ClO}_3)_2$ .  
NT bunt spores. 1096.
- 1142-1291.  
Copper chloride, CU.  
Injected into chestnut trees for blight control; T bunt spores and *Erysina amylovora*. 175, 779, 1096, 1213B.
- 1142-1291-1350.  
Copper oxychloride;  $\text{CuCl}_2 \cdot 2\text{CuO} \cdot 4\text{H}_2\text{O}$ .  
T several species fungi. 242P, 483P, 655, 688P, 961, 1096.
- 1142-1396.  
Copper chromate;  $\text{CuCrO}_4$ .  
MT bunt spores. 1096.



- 1142-1303.  
Cuprous cyanide;  $\text{CuCN}$ . 271A.P.
- 1142-1303.  
Copper cyanide,  $\text{Cu}$ .  
MT bunt spores; NT *Fusarium cubense* at 1% in soil. 1096, 1430A.
- 1142-1309.  
Cupric ferrocyanide;  $\text{Cu}_2\text{Fe}(\text{CN})_6 \cdot 7\text{H}_2\text{O}$ .  
NT spores of *Macrosporium sarcinaeforme* and *Venturia inaequalis* or *V. perina*. 905.
- 1142-1312.  
Cupric fluoride;  $\text{CuF}_2$ .  
NT *Fusarium cubense*. 1420A.
- 1142-1312.  
Copper hydrogen fluoride;  $\text{CuH}_2\text{F}_4$ ? (Copper acid fluoride).  
T several species wood-destroying fungi. 655.
- 1142-1312-1325.  
Copper fluoride, basic;  $\text{Cu}(\text{OH})\text{F}$ ?  
T spores of *Venturia inaequalis*. 905.
- 1142-1313.  
Cupric fluosilicate;  $\text{CuSiF}_6$ .  
T bunt spores. 1096.
- 1142-1325.  
Copper hydroxide;  $\text{Cu}(\text{OH})_2$ .  
T apple scab and blotch. 175, 715, 1213B.
- 1142-1333.  
Cuprous iodide;  $\text{CuI}$ .  
NT as fungicide. 905.
- 1142-1333.  
Cupric iodide;  $\text{CuI}_2$ .  
T bunt spores. 1096.
- 1142-1341.  
Cupric nitrate;  $\text{Cu}(\text{NO}_3)_2$ .  
T bunt spores. 1096.
- 1142-1350.  
Cuprous oxide;  $\text{Cu}_2\text{O}$ .  
T many fungi; common seed treatment.
- 1142-1350.  
Cupric oxide;  $\text{CuO}$ .  
T *Phytophthora infestans*; ST walnut blight. 961, 1429.
- 1142-1350-1389.  
Basic copper sulfates. (Bordeaux Mixture).  
T many fungi.
- 1142-1356.  
Copper phosphate;  $\text{Cu}_3(\text{PO}_4)_2$ .  
MT bunt spores; NT downy mildew of onions. 1096, 1506.
- 1142-1362.  
Copper phosphide;  $\text{Cu}_3\text{P}$ ?  
MT bunt spores. 1096.
- 1142-1384.  
Copper silicate;  $\text{CuSiO}_3$ .  
MT bunt spores. 1096.
- 1142-1389.  
Copper sulfate;  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ . (Bluestone; blue vitriol.)  
T most fungi, commonly used. 60, 175, 283, 320A, 728, 779, 907P, 1060, 1096, 1213B.
- 1142-1392.  
Copper sulfides,  $\text{Cu}$ .  
MT bunt spores. 17P, 1096.
- 1142-1405.  
Copper thiocyanate,  $\text{Cu}$ .  
T bunt spores. 905, 1096.
- For other copper salts see:  
1108-1142-1386.  
1109-1142-1344-1384.
- 1150-1450.  
Gold salts.  
T wood-destroying fungi. 60.
- 1162-1216-1341-1389.  
Silver nitrate ferrous sulfate complex. 1056.
- 1162-1260.  
Ferric arsenite,  $\text{Cu}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1266.  
Ferrous carbonate;  $\text{FeCO}_3 \cdot \text{H}_2\text{O}$ . (Iron carbonate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1291.  
Ferric chloride;  $\text{FeCl}_3$ .  
T *Achorion schenckii* and other mycoses but not commonly used at present. 263.
- 1162-1312.  
Ferric fluoride;  $\text{FeF}_3$ . (Iron fluoride).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1358.  
Ferric phosphate;  $\text{FePO}_4$ . (Iron phosphate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1365.  
Ferric hypophosphite;  $\text{Fe}(\text{H}_2\text{PO}_2)_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1389.  
Ferrous sulphate;  $\text{FeSO}_4$ .  
T *Alternaria solani*; MT *Erwinia amylovora*; NT *Sclerotinia fructicola*. 779, 916A.
- 1162-1389.  
Ferric sulfate;  $\text{Fe}_2(\text{SO}_4)_3$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Fomes annosus*; MT *Phytophthora infestans*; MT *Sclerotium rolfsii*. 59, 320A, 916A, 1055.
- 1162-1392.  
Ferrous sulfide;  $\text{FeS}$ . (Iron sulphide).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1450.  
Iron salts,  $\text{Cu}$ .  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
- 1164-1291.  
Lanthanum chloride;  $\text{LaCl}_3$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1164-1341.  
Lanthanum nitrate;  $\text{La}(\text{NO}_3)_3$ .  
MT mold fungi at 0.09%. 476.
- 1166-1254.  
Lead hydrogen arsenate;  $\text{PbHAsO}_4$ . (Acid lead arsenate; lead arsenate).  
T apple scab. 159, 580.
- 1166-1270.  
Lead borate;  $\text{Pb}(\text{BO}_2)_2 \cdot \text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1286.  
Lead carbonate;  $\text{PbCO}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1296.  
Lead chromate;  $\text{PbCrO}_4$ .  
T *Sclerotinia fructicola*; NT *Alternaria solani*. 916A.
- 1166-1313.  
Lead fluosilicate;  $\text{PbSiF}_6 \cdot 2\text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1333.  
Lead iodide;  $\text{PbI}_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1341.  
Lead nitrate;  $\text{Pb}(\text{NO}_3)_2$ .  
T *Fomes annosus*. 59.
- 1166-1350.  
Lead oxide, mono;  $\text{PbO}$ . (Litharge).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1350.  
Lead oxide, red;  $\text{Pb}_2\text{O}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1351.  
Lead dioxide;  $\text{PbO}_2$ . (Lead peroxide).  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1166-1410.  
Lead hydrogen thioarsenate;  $\text{PbHAsS}_4$ ?  
When containing 0.05%  $\text{As}_2\text{O}_3$  proved fungicidal. 580.
- 1168-1286.  
Lithium carbonate;  $\text{Li}_2\text{CO}_3$ .  
T *Sclerotinia fructicola*; NT *Alternaria solani*; injected into chestnut trees for blight control. 175, 916A, 1213B.
- 1168-1291.  
Lithium chloride;  $\text{LiCl}$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1168-1325.  
Lithium hydroxide;  $\text{LiOH}$ .  
Injected into chestnut trees for blight control. 175, 1213B.

- 1166-1341.  
Lithium nitrate;  $\text{LiNO}_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1166-1389.  
Lithium sulphate;  $\text{Li}_2\text{SO}_4$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1172-1250.  
Magnesium aluminate;  $\text{MgAl}_2\text{O}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1172-1254.  
Magnesium arsenate;  $\text{MgHAsO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1172-1270.  
Magnesium borate;  $\text{MgB}_2\text{O}_4$ ? (Antifungin).  
T *Trichophyton fungus*. 283.
- 1172-1286.  
Magnesium carbonate;  $\text{MgCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1172-1313.  
Magnesium fluosilicate;  $\text{MgSiF}_6$ . (Magnesium silico-fluoride).  
HT mold fungi at 0.025%. 476.
- 1172-1325.  
Magnesium hydroxide;  $\text{Mg}(\text{OH})_2$ .  
T *Phytophthora infestans*. 1429.
- 1172-1350.  
Magnesium oxide;  $\text{MgO}$ .  
T *Phytophthora infestans*; NT *Sclerotinia fructicola* and *Alternaria solani*. 916A, 1429.
- 1172-1384.  
Magnesium silicate;  $\text{MgSiO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*; seed disinfectant. 754P, 916A.
- 1172-1389.  
Magnesium sulphate;  $\text{MgSO}_4$ .  
T *Phytophthora infestans*; ST *Fomes annosus*. 59, 1055.
- 1174-1216-1341-1389.  
Silver nitrate-manganous sulphate complex.  
T tulip "fire"; NT late blight of potatoes. 627.
- 1174-1270.  
Manganese tetraborate;  $\text{MnB}_4\text{O}_7 \cdot 8\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1174-1286.  
Manganese carbonate;  $\text{MnCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1174-1291.  
Manganese chloride;  $\text{MnCl}_2$ .  
ST *Fomes annosus*. 59.
- 1174-1350.  
Manganese dioxide;  $\text{MnO}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1174-1389.  
Manganese sulfate;  $\text{MnSO}_4 \cdot 4\text{H}_2\text{O}$ .  
MT *Phytophthora infestans*. 1055.
- 1176-1196-1333.  
Mercuric potassium iodide;  $2\text{HgI}_2 \cdot 2\text{KI} \cdot 3\text{H}_2\text{O}$ .  
Seed disinfectant. 1249P.
- 1176-1196-1350.  
Mercury potassium oxide, CU.  
Seed disinfectant. 1249P.
- 1176-1291.  
Mercurous chloride;  $\text{HgCl}$ . (Calomel).  
Used in various mycoses, fungicidal effect questionable. 283.
- 1176-1291.  
Mercuric chloride;  $\text{HgCl}_2$ . (Corrosive sublimate).  
T many species fungi. 60, 175, 283, 1060, 1213B, 1354.
- 1176-1303.  
Mercuric cyanide;  $\text{Hg}(\text{CN})_2$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Erwinia amylovora*. 779, 916A.
- 1176-1333.  
Mercuric iodide, red;  $\text{HgI}_2$ . (Mercury biniodide).  
T *Sclerotinia fructicola*, *Alternaria solani*, and some mycoses. 283, 916A.
- 1176-1350.  
Mercurous oxide;  $\text{Hg}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1176-1350.  
Mercuric oxide;  $\text{HgO}$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Erwinia amylovora*. 779, 916A.
- 1176-1350.  
Mercury oxide, CU.  
T *Phytophthora infestans*. 178P, 786P, 1429, 1482.
- 1176-1405.  
Mercurous thiocyanate;  $\text{Hg}_2\text{SCN}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1176-1450.  
Mercury salts, CU. 786P.  
For other mercury salts see:  
1142-1177-1405.  
1109-1176-1291.
- 1182-1286.  
Nickel carbonate;  $\text{NiCO}_3$ .  
T *Sclerotinia fructicola* and wheat bunt; NT *Alternaria solani*. 246, 916A.
- 1182-1291.  
Nickel chloride;  $\text{NiCl}_2$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and wood-destroying fungi. 60, 916A.
- 1182-1296.  
Nickel chromate, basic.  
T several species wood-destroying fungi. 60.
- 1182-1312.  
Nickel fluoride;  $\text{NiF}_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1182-1325.  
Nickel hydroxide, CU.  
T wheat bunt. 246.
- 1182-1350.  
Nickel oxide;  $\text{NiO}$ .  
T *Sclerotinia fructicola*; NT *Alternaria solani*. 916A.
- 1182-1389.  
Nickel sulphate;  $\text{NiSO}_4$ .  
T *Septoria* blight and *Fomes annosus*. 59, 916A.
- 1182-1392.  
Nickel sulphide;  $\text{Ni}_3\text{S}_2$ .  
T wheat bunt. 246.
- For other nickel salts see:  
1109-1182-1254.  
1109-1182-1389.
- 1184-1291.  
Nitrogen trichloride;  $\text{NCl}_3$ .  
In concentrations of 5 mg. per cubic foot and upwards is lethal to spores and mycelium of blue and green mold. 804, 805.
- 1196-1252.  
Potassium dihydrogen pyroantimonate;  $\text{K}_2\text{H}_2\text{Sb}_2\text{O}_7 \cdot 4\text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1254.  
Potassium dihydrogen arsenate;  $\text{KH}_2\text{AsO}_4$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1274.  
Potassium bromate;  $\text{KBrO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1286.  
Potassium hydrogen carbonate;  $\text{KHCO}_3$ .  
NT late and *Septoria* tomato blights. 916A.
- 1196-1286.  
Potassium carbonate;  $\text{K}_2\text{CO}_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1196-1290.  
Potassium chromate;  $\text{K}_2\text{CrO}_4$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1196-1297.  
Potassium dichromate;  $\text{K}_2\text{Cr}_2\text{O}_7$ .  
Injected into chestnut trees for blight control; T *Fomes annosus*. 59, 175, 1213B.
- 1196-1308.  
Potassium ferricyanide;  $\text{K}_3\text{Fe}(\text{CN})_6$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.

- 1196-1309.  
Potassium ferrocyanide;  $K_4Fe(CN)_6 \cdot 3H_2O$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1313.  
Potassium fluosilicate;  $K_2SiF_6$ . (Hiaratite).  
T *Alternaria solani*; ST *Macrosporium sarcinae-formae* and *Sclerotinia fructicola*. 717, 916A.
- 1196-1315.  
Potassium fluotitanate;  $K_2TiF_6$ . (Potassium titanium fluoride).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1325.  
Potassium hydroxide; KOH.  
Injected into chestnut trees for blight control; T downy mildew of hops. 175, 1051, 1213B.
- 1196-1330.  
Potassium iodate;  $KIO_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1330.  
Potassium hydrogen iodate;  $KH(IO_3)_2$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1196-1333.  
Potassium iodide; KI.  
T *Fomes annosus*; NT *Sclerotinia fructicola* and *Alternaria solani*. 59, 916A.
- 1196-1338.  
Potassium permanganate;  $KMnO_4$ .  
T wood-destroying fungi, athlete's foot, and other mycoses; used to disinfect beet seeds against *Trichoderma*; NT *Fusarium cubense*. 60, 283, 770, 1420A.
- 1196-1341.  
Potassium nitrate;  $KNO_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1356.  
Dipotassium hydrogen phosphate;  $K_2HPO_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1380.  
Potassium selenite;  $K_2SeO_3$ .  
NT chestnut blight. 175, 1363A.
- 1196-1389.  
Potassium sulphate;  $K_2SO_4$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1196-1392.  
Potassium polysulphide;  $KS_x$ . (Liver of sulphur). 580.
- 1196-1404.  
Potassium tellurite;  $K_2TeO_3$ .  
NT chestnut blight. 175, 1363A.
- 1206-1286.  
Rubidium carbonate;  $Rb_2CO_3$ .  
MT mold fungi at 1.0%. 476.
- 1206-1291.  
Rubidium chloride;  $RbCl$ .  
MT mold fungi at 1.0%. 476.
1212.  
Selenium; Se.  
NT spores of *Sclerotinia americana*, *Pestalotia stelata*, and *Uromyces caryophyllinus*. 1486.
1216.  
Silver, colloidal; Ag.  
Injected into chestnut trees for blight control; not so efficient as bordeaux mixture for control of late potato blight. 175, 1055, 1213B.
- 1216-1254.  
Silver orthoarsenate;  $Ag_3AsO_4$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1260.  
Silver orthoarsenite;  $Ag_3AsO_3$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1276.  
Silver bromide;  $AgBr$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1286.  
Silver carbonate;  $Ag_2CO_3$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1291.  
Silver chloride;  $AgCl$ .  
T *Sclerotinia fructicola*, *Phytophthora infestans*, and *Alternaria solani*. 916A, 1054, 1055.
- 1216-1296.  
Silver chromate;  $Ag_2CrO_4$ .  
T *Sclerotinia fructicola*, *Phytophthora infestans*, and *Alternaria solani*. 916A, 1054, 1055.
- 1216-1297.  
Silver dichromate;  $Ag_2Cr_2O_7$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1303.  
Silver cyanide;  $AgCN$ .  
T *Phytophthora infestans*, *Sclerotinia fructicola*, and *Alternaria solani*. 916A, 1054, 1055.
- 1216-1308.  
Silver ferrocyanide;  $Ag_4Fe(CN)_6$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1333.  
Silver iodide;  $AgI$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1340.  
Silver molybdate;  $Ag_2MoO_4$ .  
T *Phytophthora infestans*. 1055.
- 1216-1341.  
Silver nitrate;  $AgNO_3$ .  
T *Fomes annosus* and *Alternaria solani*. 59, 1054.
- 1216-1350.  
Silver oxide;  $Ag_2O$ .  
T *Sclerotinia fructicola* and *Alternaria solani*; not so effective as bordeaux mixture for control of late potato blight. 916A, 1055, 1056.
- 1216-1356.  
Silver orthophosphate;  $Ag_3PO_4$ .  
T *Alternaria solani* and *Phytophthora infestans*. 1054, 1055.
- 1216-1389.  
Silver sulfate;  $Ag_2SO_4$ .  
T *Alternaria solani* and *Sclerotinia fructicola*. 916A, 1054.
- 1216-1392.  
Silver sulfide;  $Ag_2S$ . 1054.
- 1216-1393.  
Silver sulfite;  $Ag_2SO_3$ .  
T *Phytophthora infestans*. 1055.
- 1216-1405.  
Silver thiocyanate;  $AgSCN$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1414.  
Silver thiosulfate;  $Ag_2S_2O_3$ .  
Weakly fungicidal. 1054.
- 1216-1420.  
Silver tungstate;  $Ag_2WO_4$ .  
T *Phytophthora infestans*. 1055.
- 1216-1450.  
Silver salts.  
T wood-destroying fungi. 60.
- For other silver salts see:  
1162-1216-1341-1389.  
1174-1216-1341-1389.
- 1218-1254.  
Disodium hydrogen orthoarsenate;  $Na_2HASO_4$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, powdery mildew of cucumber, American mildew (*Sphaerotheca mors-uvae*) of gooseberry, and apple mildew (*Podosphaera leucotricha*). 580, 916A, 1374.
- 1218-1260.  
Sodium arsenite, CU.  
T several species wood-destroying fungi. 60.
- 1218-1260.  
Disodium hydrogen orthoarsenite;  $Na_2HAsO_3$ .  
T powdery mildew of cucumber but caused leaf scorch. 1374.
- 1218-1264.  
Sodium azide;  $NaN_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1268.  
Sodium bismuthate;  $NaBiO_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1270.  
Sodium tetraborate;  $Na_2B_4O_7$ . (Borax).

- T *Fomes annosus* and several species wood-destroying fungi. 59, 60.
- 1218-1270.  
Sodium perborate;  $\text{NaBO}_3\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1286.  
Sodium carbonate;  $\text{Na}_2\text{CO}_3$ .  
Injected into chestnut trees for blight control; T *Phymatotrichum* root-rot. 175, 1213B, 1387.
- 1218-1291.  
Sodium chloride;  $\text{NaCl}$ .  
Injected into chestnut trees for blight control; seed treatment. 175, 907P, 1213B.
- 1218-1294.  
Sodium hypochlorite;  $\text{NaClO}$ . (Modified Dakin's solution).  
T *Trichophyton* fungus. 283, 322P.
- 1218-1296.  
Sodium chromate;  $\text{Na}_2\text{CrO}_4$ .  
T *Fomes annosus* and several species wood-destroying fungi. 59, 60.
- 1218-1297.  
Sodium dichromate;  $\text{Na}_2\text{Cr}_2\text{O}_7$ .  
T *Fomes annosus* and several species wood-destroying fungi. 59, 60.
- 1218-1312.  
Sodium fluoride;  $\text{NaF}$ .  
T *Septoria* blight, *Fomes annosus*, and several species wood-destroying fungi. 59, 60, 916A.
- 1218-1313.  
Sodium fluosilicate;  $\text{Na}_2\text{SiF}_6$ . (Sodium silicofluoride).  
T *Sclerotinia fructicola*, *Alternaria solani*, and T mold fungi at 0.15%; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 476, 717, 916A.
- 1218-1328.  
Sodium hydroxide;  $\text{NaOH}$ .  
T *Fomes annosus* and downy mildew of hops; injected into chestnut trees for blight control; seed treatment. 59, 175, 907P, 1051, 1213B.
- 1218-1330.  
Sodium iodate;  $\text{NaIO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1340.  
Sodium molybdate;  $\text{Na}_2\text{MoO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1345.  
Sodium nitroprusside;  $\text{Na}_2\text{Fe}(\text{CN})_5\text{NO} \cdot 2\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1356.  
Trisodium phosphate;  $\text{Na}_3\text{PO}_4$ .  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
- 1218-1376.  
Sodium selenate;  $\text{Na}_2\text{SeO}_4$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 1218-1380.  
Sodium selenite;  $\text{Na}_2\text{SeO}_3 \cdot 5\text{H}_2\text{O}$ .  
NT chestnut blight. 175, 1363A.
- 1218-1384.  
Sodium metasilicate;  $\text{Na}_2\text{SiO}_3$ .  
ST several species wood-destroying fungi. 655.
- 1218-1392.  
Sodium sulphide;  $\text{Na}_2\text{S} \cdot 9\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1392.  
Sodium polysulphide;  $\text{NaSx}$ .  
T *Fusarium cubense* and *Gloeosporium musarum*. 580, 1420A.
- 1218-1393.  
Sodium dithionite;  $\text{Na}_2\text{S}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ . (Sodium hydrosulphite).  
Non-fungicidal. 903.
- 1218-1393.  
Sodium sulfite;  $\text{Na}_2\text{SO}_3$ .  
T *Fomes annosus*, *Trichophyton* fungus, *Achorion schenckii*, *Trichophyton ectothrix*, and *Dermatomyces*. 59, 283.
- 1218-1396.  
Sodium pyrosulfite;  $\text{Na}_2\text{S}_2\text{O}_5$ . (Sodium metabisulphite).  
Non-fungicidal. 903.
- 1218-1396? .  
Sodium hydrogen sulfite;  $\text{NaHSO}_3$ ? (Sodium bisulfite).  
T *Fomes annosus*, *Trichophyton* fungus, *Achorion schenckii*, *Trichophyton ectothrix*, and *Dermatomyces*. 59, 283.
- 1218-1404.  
Sodium tellurite;  $\text{Na}_2\text{TeO}_3$ .  
NT chestnut blight. 175, 1363A.
- 1218-1414.  
Sodium thiosulphate;  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ .  
Injections controlled apple mildew; NT *Sclerotinia fructicola* and *Alternaria solani*. 175, 903, 916A, 1167A.
- 1218-1420.  
Sodium tungstate;  $\text{Na}_2\text{WO}_4$ .  
T *Fomes annosus*. 59.
- 1220-1286.  
Strontium carbonate;  $\text{SrCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1220-1350.  
Strontium oxide;  $\text{SrO}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1220-1351.  
Strontium peroxide;  $\text{SrO}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1220-1389.  
Strontium sulphate;  $\text{SrSO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
1222.  
Sulphur; S.  
Commonly used fungicide, T to many species fungi.
- 1222-1350.  
Sulfur dioxide;  $\text{SO}_2$ .  
Used to prevent fungus growth on stored grapes. 804.
1226.  
Tellurium; Te.  
NT *Sclerotinia americana* and *Pestalotia stellata*. 1486.
- 1228-1286.  
Thallium carbonate;  $\text{Tl}_2\text{CO}_3$ .  
HT mold fungi at 0.02%. 476.
- 1228-1296.  
Thallium chromate;  $\text{Tl}_2\text{CrO}_4$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1228-1389.  
Thallium sulfate;  $\text{Tl}_2(\text{SO}_4)_2$ .  
T several species wood-destroying fungi. 60, 655.
- 1228-1450.  
Thallium salts, CU.  
T wood-destroying fungi. 60.
- 1230-1450.  
Thorium salts, CU.  
T wood-destroying fungi. 60.
- 1234-1350.  
Stannous oxide;  $\text{SnO}$ . (Tin oxide).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1234-1350.  
Stannic oxide;  $\text{SnO}_2$ . (Cassiterite).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1234-1450.  
Tin salts, CU.  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
- 1240-1450.  
Uranium salts, CU.  
T wood-destroying fungi. 60.
- 1242-1350.  
Vanadium pentoxide;  $\text{V}_2\text{O}_5$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1244-1296.  
Zinc carbonate;  $\text{ZnCO}_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.

- 1344-1391.  
Zinc chloride;  $ZnCl_2$ .  
T *Fomes annosus*, several species wood-destroying fungi, and at 0.5% T *Fusarium cubense* and *Gloeosporium muscivorum*. 59, 60, 1420A.
- 1344-1393.  
Zinc cyanide;  $Zn(CN)_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1344-1313.  
Zinc fluosilicate;  $ZnSiF_6$ . (Zinc silicofluoride).  
T *Alternaria solani*; MT mold fungi at 0.13%; ST *Monosporium sarcinaeforme* and *Sclerotinia fructicola*. 476, 717, 916A.
- 1344-1350.  
Zinc oxide;  $ZnO$ .  
T *Alternaria solani* and *Phytophthora infestans*; NT *Sclerotinia fructicola*; widely used seed treatment. 916A, 1429.
- 1344-1351.  
Zinc peroxide;  $ZnO_2$ . 762P.
- 1344-1380.  
Zinc selenite;  $ZnSeO_3$ .  
ST several species wood-destroying fungi. 655.
- 1344-1392.  
Zinc sulfate;  $ZnSO_4 \cdot 7H_2O$ .  
MT *Phytophthora infestans*. 1055.
- 1344-1392.  
Zinc sulphide;  $ZnS$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- For other zinc salts see:  
1109-1142-1244-1384.  
1109-1244-1312.
- 1246-1303.  
Alkali cyanides, CU. 163P.
- 1246-1340.  
Molybdates, CU.  
T wood-destroying fungi. 60.
- 1246-1405.  
Alkali thiocyanates. 163P.
1254.  
Orthoarsenic acid;  $H_3AsO_4$ .  
ST *Erwinia amylovora*. 779.
1290.  
Arsenious acid;  $H_3AsO_3$ .  
T several species wood-destroying fungi; ST at non-phytotoxic concentrations on seeds. 74, 655.
1279.  
Boric acid;  $H_3BO_3$ .  
T several species wood-destroying fungi; 0.3% T *Fusarium cubense* and *Gloeosporium muscivorum*. 90, 1420A.
1276.  
Bromine; Br.  
Used with volatile compounds of chromium. 855P.
1291.  
Chlorine;  $Cl_2$ . 804, 805, 855P.
1291.  
Hydrochloric acid; HCl.  
T downy mildew of hops; T *Gloeosporium muscivorum* at 0.5% and to *Fusarium cubense* at 0.75%. 1051, 1420A.
1303.  
Hydrocyanic acid; HCN.  
T *Trichoderma lignorum*. 804.
1333.  
Iodine;  $I_2$ .  
T wood-destroying fungi but too volatile as wood preservative. 60.
1350.  
Ozone;  $O_3$ .  
Only partially inhibited the germination and growth of fungi on agar. 804, 805, 855P.
1351.  
Hydrogen peroxide;  $H_2O_2$ . (Peroxide).  
T *Trichophyton fungus* and *Achorion Schonleini* but otherwise rarely used as fungicide. 283, 855P.
1378.  
Hydrogen selenide;  $H_2Se$ .  
As toxic as hydrogen sulphide. 1486.
1389.  
Sulphuric acid;  $H_2SO_4$ .  
T downy mildew of hops and *Fomes annosus*. 59, 1051.
1392.  
Hydrogen sulfide;  $H_2S$ .  
T *Trichoderma lignorum*. 804, 1443.
1393.  
Sulfurous acid;  $H_2SO_3$ . (Solution of sulfur dioxide).  
T *Achorion schonleini* and *Trichophyton ectothrix*. 283.
1409.  
Pentathionic acid;  $H_5S_5O_6$ .  
T 9 pathogenic fungi. 857.

# CONDENSATION PRODUCTS

Aluminates and phenols. 186P.

Antimonates and phenols. 186P.

Arsenomethane and dithioglycolic acid. 364P, 1129P.

Arsenotungstate, luteo-Na, and phenols. 186P.

Benzaldehyde, *o*-sulpho-, (1 mole) and *p*-chlorophenol, (2 moles), brominated.

Moldproofing agent. 455P, 1179.

Calcium sulfite + oxalic acid.

NT *Fusarium cubense*. 1420A.

*p*-Chlorophenol (2 moles) with chloride (1 mole). (Obtained from *o*-sulphobenzaldehyde and  $\text{PCl}_5$ , in the presence of chlorobenzene and ferric chloride or nitrobenzene and aluminum chloride).

Moldproofing agent. 451P, 1179.

*p*-Chlorophenol with chloride (1 mole). (Obtained from 4-chloro-2-sulphobenzaldehyde and  $\text{PCl}_5$ , in the presence of chlorobenzene and ferric chloride or nitrobenzene and aluminum chloride).

Moldproofing agent. 451P, 1179.

*p*-Chlorophenol with chloride (1 mole). (Obtained from 5-chloro-2-sulphobenzaldehyde and  $\text{PCl}_5$ , in the presence of chlorobenzene and ferric chloride or nitrobenzene and aluminum chloride).

Moldproofing agent. 451P, 1179.

Chromates and phenols. 186P.

Diethylaminoethyl chloride and benzyl bromide. 349P.

Formaldehyde phenol, CU. 786P.

Furfural and mercury chloride.

T *Diplodia*, *Gibberella*, and *Basiporium*. 1131P.

Glycolic acid, dithio-, with arsenodimethyl.

Controls smut in oats; used as dust, T *Fusarium* infected rye seed. 1129P, 1178.

Methanes, hydroxydi-. (Obtained from aldehydes and halogenated phenols, in which both ortho-positions and the para-position to the hydroxyl are occupied but at least one meta-position is free). 439P, 1179.

Methanes, triaryl-. (Obtained from aldehydes and halogenated phenols in which both ortho-positions and the para-position to the hydroxyl are occupied but at least one meta-position is free). 439P, 1179.

Methylarsine oxide and thioacetic acid.

T *Fusarium* infested rye seed. 364P, 1129P, 1178.

$\beta$ -Naphthol, thio-, with methyl-arsin oxide.

T spores of barley blight. 382P, 1129P, 1178.

Rhodaide,  $\alpha,\beta$ -chloroethylene. 529P.

Sodium chromimolybdate. 186P.

Stannates and phenols. 186P.

Sulfostannates and phenols. 186P.

2,4,5-Trichlorobenzyl chloride and *p*-chlorophenol, (equimolecular quantities), brominated.

Moldproofing agent. 455P, 1179.

Zincates and phenols. 186P.

$\text{NH}_4\text{CH}_2\text{RCOOH}$ , reaction product with  $\text{CS}_2$  and O. Where R is H or an alkyl, aryl or heterocyclic radical, are boiled under reflux in aq. soln. with  $\text{CS}_2$ , and the soln. obtained is oxidised with air in the presence of a catalyst. Seed disinfectant. 732P.

# PLANT PRODUCT FUNGICIDES

*Amygdalus communis* L. (Bitter almond).

Oil injected into chestnut trees for blight control. 175, 1213B.

*Arachis hypogaea* L. (Peanut).

Oil T at 5% *Sphaerotheca humuli*. 902.

Bark, unspecified, extracts of.

Injected into chestnut trees for blight control. 175, 1213B.

Burdock. See *Convolvulus arvensis*.

*Brassica campestris* L. (Rapeseed oil).

Oil T *Sphaerotheca humuli* at 0.5%. 902.

*Brassica* spp. (Mustard).

Oil of mustard A NT at 0.25% but T at 0.5% *Sphaerotheca humuli*; at 0.5% mustard B gave same fungicidal effect as with 0.5% oil of mustard A. 902.

*Castanea dentata* (Marsh.) Borkh. (American chestnut).

Water exts. of bark and blight cankers used as tree injections for blight control. 175, 1213B.

Castor oil. See *Ricinus communis*.

Chestnut. See *Castanea dentata*.

*Convolvulus arvensis* L. (Sap from burdock).

T downy mildew of hops. 1051.

Corn. See *Zea mays*.

*Gossypium* spp. (Cottonseed oil).

Oil T *Sphaerotheca humuli* at 0.5%. 902.

*Humulus* sp. (Hops).

Sap T downy mildew of hops. 1051.

*Linum usitatissimum* L. (Linseed oil).

Oil NT at 0.5% but T at 1% to *Sphaerotheca humuli*. 902.

Maize oil. See *Zea mays*.

Mustard oil. See *Brassica* spp.

*Olea europaea* L. (Olive oil).

Oil T *Sphaerotheca humuli* at 0.5%. 902.

*Papaver somniferum* L. (Poppy).

At 0.5% the wash proved to be fungicidal or not quite fungicidal. 902.

Peach-kernel oil. See *Prunus* spp.

Peanut oil. See *Arachis hypogaea*.

Poppyseed oil. See *Papaver somniferum*.

*Prunus* spp. (Peach).

Peach-kernel oil T *Sphaerotheca humuli* at 0.5%. 902.

Rapeseed oil. See *Brassica campestris*.

*Ricinus communis* L. (Castor oil).

Oil T *Sphaerotheca humuli* at 1%. 902.

*Sesamum indicum* L. (Sesame oil).

Oil T *Sphaerotheca humuli* at 0.5%. 902.

*Soja max* (L.) Piper (Soybean).

Oil MT *Sphaerotheca humuli* at 0.25%. 902.

*Urtica lyallii* (Wats.). (Sap from nettles).

T downy mildew of hops. 1051.

*Zea mays* L. (Maize or corn oil).

Oil T *Sphaerotheca humuli* at 1%. 902.

# MISCELLANEOUS FUNGICIDES

- Acetate, copper.  
T walnut blight. 961.
- Acetate, copper benzoyl-.  
T *Macrosporium sarcinaeforme*. 717.
- Acetate, copper propionyl-.  
T *Macrosporium sarcinaeforme*. 717.
- Cinchona alkaloids.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- Casein.  
NT several species wood-destroying fungi. 655.
- Cottrell dust. 1302.
- Creosote.  
T *Fusarium cubense* and several species wood-destroying fungi. 60, 1420A.
- Gasoline.  
NT *Fusarium cubense*. 1420A.
- German violet.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Goulac. (Lignin pitch; lignosulfonates).  
NT several species wood-destroying fungi. 655.
- Gum arabic sulfonic acid. 834P, 1432.
- Helione yellow.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Isocholesterin.  
Dry disinfectant for seeds. 1498P.
- Juglone (from black walnut hulls). 717.
- Methyl parasept.  
ST *Macrosporium sarcinaeforme*. 717.
- Nicotine cyanide oleate, mixture, CU. 916P.
- Oil, cod-liver.  
Fungicidal at 0.5%. 902.
- Oil, fusel.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Oil, mineral. 904.
- Oil, neatsfoot.  
Non-fungicidal at 0.5%. 902.
- Oil, seal.  
Non-fungicidal at 1%. 902.
- Oil, pine tar.  
Injected into fruit trees. 175, 1508AP.
- Oil, tar.  
Too injurious for use. 904.
- Orange Helione.  
T spores of *Cladosporium fulvum* Cke. 1476.
- Petroleum mahogany sulphonate, metallic salts of. 32DP.
- Phenothiazine, oxidized.  
T *Sclerotinia fructicola*. 717.
- Pitch, anthracene. 356P.
- Pitch, naphthol, sulfonated. 356P.
- Pyridine cyanide oleate, mixture, CU. 916P.
- Resinate, mercuric.  
T several species wood-destroying fungi. 655.
- Rhodamine, CU.  
Results encouraging but not conclusive against mildew on grapevines. 950.
- Rosin.  
T onion-mildew sporangia. 1507.
- Saponin.  
Seed treatment. 183P.
- Silver nucleinate.  
T *Phytophthora infestans*. 1054, 1055.
- Silver-soap.  
ST *Phytophthora infestans*. 1055.
- Sinigrin. (Glucose, + allyl isothiocyanate, +  $\text{KHSO}_4$ ).  
Slight fungicidal effect. 1448.
- Sodium iodochoolate.  
Greater and more fungicidal effect than iodine. 283.
- Tannic acid.  
T downy mildew of hops. 1051.
- Tar phenols, chlorinated low temperature.  
Fraction with b.p. 120-165° at 3 mm., MT mold fungi at 0.1%. 476.
- Tar phenols, chloromercuri derivatives of low temperature.  
Fraction with b.p. 75-130° at 3 mm., HT mold fungi at 0.02%; fraction with b.p. 185-190° at 3 mm., HT mold fungi at 0.01-0.02%; fraction with b.p. 195-200° MT mold fungi at 0.02%. 476.
- Turpentine.  
Tree injection. 175, 1508AP.
- Valone.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Anion-X-R-O-acyl.  
In which X is an atom of N of a tertiary cyclic base and R is a group containing C. 1334P.
- $\text{CHC(R)}(\text{CH})\text{X}$ .  
An aralkyl polyhydric phenol corresponding to the general formula wherein X is a phenolic radical selected from the class consisting of polyhydroxy aryl and polyhydroxy haloaryl radicals of the benzene series, and R is a lower alkyl radical. 1089P.
- $\text{C}_{14}\text{H}_{22}\text{N}$ , CU.  
T *Phymatotrichum omnivorum*. 1162.
- $\text{C}_6\text{H}_{11}\text{SN}_2$ , CU.  
Thiourea and  $\text{NH}_3\text{-AcH}$  give a product  $\text{C}_6\text{H}_{11}\text{SN}_2$ . 361P.
- $(\text{NH}_2\text{RNH}_2)_x\text{-(R'HgY)}_s$ .  
When R is alkylene group, R' an alkyl residue, Y a hydroxyl group or an acid residue while x and s are whole numbers. 1253P.
- $\text{RHgSR'}$ .  
In which R is a hydrocarbon radical, X an alkyl, acid, OH or SH group and R' a  $\text{COOH}$  or  $\text{SO}_3\text{H}$  group. 303P.
- $\text{RCOCH(R')CH}_2\text{Y}$ .  
Where R is an aryl or chloroaryl group, R' is hydrogen or alkyl, and Y is the residue of an amine from the class consisting of primary and secondary amines. 719P.
- $\text{R'HN'(C:NHR''X)SHgR}$ .  
Compounds of the type  $\text{RHgX}$ , where R is a hydrocarbon radical which may be substituted, and X halogen or an acid are treated with thiocarbamide or N-substituted derivative thereof yielding compounds of the above type, where R' and R'' are H, alkyl, or aryl. 493P.
- $(\text{RHg})_2\text{S}$ .  
In which R is a hydrocarbon radical, X an alkyl, acid, OH or SH group and R' a  $\text{COOH}$  or  $\text{SO}_3\text{H}$  group. 303P.
- $\text{RHgX}$ .  
In which R is a hydrocarbon radical, X an alkyl, acid, OH or SH group and R' a  $\text{COOH}$  or  $\text{SO}_3\text{H}$  group. 302P, 303P.
- S-Manganan-Al hydrate. 1104.
- $\text{XHgCR}_2\text{CR}_2\text{OR'}$ .  
The general formula for this seed disinfectant, where X = OH, acetate, lactate, oxalate, sulfate, chloride, thiocyanate, etc. 1263P.
- $\text{ZNHR}$ .  
In which Z is a univalent replaceable element and R is an organic radical of which 1 C atom is linked with the N atom of the NH group. 1296P.





# **PLANT INSECTICIDES**



# PLANT INSECTICIDES

*Abelmoschus moschatus*, see *Hibiscus abelmoschus* L.  
*Abies balsamea* (L.) Mill. (Balsam fir).

Canada balsam, obtained from this species, is mentioned in a patent as a constituent of an adhesive composition to be used in mothproofing. 933B.

*Abies concolor* (Gord. and Glend.) Hoopes. (White fir).

Exts. were not repellent to Japanese beetle. 933B.  
*Abies veitchii* Lindl. (Veitch fir).

Exts. were not repellent to Japanese beetle. 933B.

*Abrus precatorius*. (Jequirity; prayer beads; crab's eye bean).

Acetone ext. of root and stem 10% T and seeds NT mosquito larvae. 643A, 645.

*Absointhum vulgare*, see *Artemisia absinthium*.

*Abuta imens* (Mart.) Eichl.

Used as fish poison in Brasil. 795.

*Acacia arabica*, see *A. nilotica*.

*Acacia catechu* Willd. (Catechu; cutch).

Exts. were not repellent to Japanese beetle; used as insect repellent in a paint or coating for application to underwater structures to prevent decay and ravages by marine life, insects, vermin, and rodents; oil of aromatic catechu "A" T. *Lucilia cuprina* larvae. 849, 933B.

*Acacia falciformis* DC.

Exts. of leaves and bark were NT bean aphid. 933B.

*Acacia longifolia* Willd. (Sydney wattle).

Commercial ext. was repellent to Japanese beetle. 933B.

*Acacia nilotica* (L.) Willd. (*A. arabica* (Lam.) Willd.; *A. scorpioides* (L.) W. F. Wight; babool tree).

Leaves mixed with coconut oil were applied in cases of fish. 933B.

*Acacia pennata* Willd.

Exts. of leaves and bark of this fish poison plant from Australia and Burma were NT bean aphid. 933B.

*Acacia pruinescens* Kurs.

Exts. of leaves and bark of this fish poison plant from Australia and Burma were NT bean aphid. 933B.

*Acacia salicina* Lindl.

Exts. of leaves and bark of this fish poison plant from Australia and Burma were NT bean aphid. 933B.

*Acacia scorpioides*, see *A. nilotica*.

*Acacia senegal* Willd.

Arabic gum, with oil, is an efficient emulsifier. 933B.

*Acacia* sp.

Acacia gum was unstable as emulsifier. 933B.

*Acalypha indica* L. (*A. spicata* Forst.).

In India the powdered leaves mixed with common salt were applied externally for scabies; powder of dry leaves used in wounds attacked by worms; 5% alc. ext. of stem bark killed caterpillars as follows: 100% *Euproctus fraterna*, 90% *Plutella maculipennis* and *Pericoma ricini*, 50% *Prodenia litura*, and 40% *Crocidolomia binotalis*. 933B.

*Acer platanoides* L. (Norway maple).

Acetone and water exts. of leaves NT mosquito larvae. 643A.

*Acer pseudoplatanus* L. (Sycamore maple).

Acetone ext. of leaves 10% T mosquito larvae. 643A.

*Acer rubrum* L. (Red maple).

Exts. were not repellent to Japanese beetle. 933B.

*Acer saccharinum* L. (Silver maple).

Exts. were not repellent to Japanese beetle. 933B.

*Acer saccharum* Marsh. (Sugar maple; rock maple).

Acetone and water ext. of leaves NT mosquito larvae. 643A.

*Achillea millefolium* L. (Common yarrow).

Powder and decoction NT aphids. 933.

*Achillea nobilis* L. (Camphor yarrow).

Flower heads have an action on insects similar to that of insect powder. 933.

*Acnistatus arborescens* (L.) Schlecht.

Used as fish poison in West Indies and Central and South America. 795.

*Acockanthura longiflora* Stapf.

Exts. of leaves and stems ST citrus aphids. 933B.

Aconite, see *Aconitum napellus*.

*Aconitum chinense* Paxton.

HT silkworm and Mexican bean beetle; low mortality to other insects. 837.

*Aconitum columbianum* Nutt. (Columbia monkshood).

Ext. of roots, leaves, and stems NT grasshoppers; used as dust NT bees. 933.

*Aconitum napellus* L. (Aconite).

Water ext. T stag beetle; acetone ext. of root NT mosquito larvae. 645, 933.

*Aconitum villosum* Robb.

Dust HT silkworm and Mexican bean beetle. 837.

*Aconitum* sp.

T silkworm and Mexican bean beetle, but gave low mortality to other insects. 837.

*Acorus calamus* L. (Sweet flag; calamus).

T as mothproofing agent; oil T *Lucilia cuprina* larvae. 833P, 849, 1176.

*Acorus gramineus* Soland.

In India the roots were stated to be used as an insecticide and insectifuge. 933B.

*Adhatoda vasica*, see *Justicia adhatoda*.

*Adiantum capillus-veneris* L. (Southern maidenhair).

Exts. were not repellent to Japanese beetle. 933B.

*Adina cordifolia* (Roxb.) Benth. and Hood. ex. Brandis. (*Nauclea cordifolia* Willd.).

In India the bark, ground into paste with water, was considered to be antiseptic and prevented generation of worms in sores; juice used as insecticide. 933B.

*Adonis vernalis* L. (Spring adonis).

Exts. were not repellent to Japanese beetle. 933B.

*Aeschion excelso*, see *Pierasma excelso*.

*Aeschynomene sesbania*, see *Sesbania aegyptiaca*.

*Aeschynomene sensitiva* Sw.

Seeds reported to contain rotenone. 759.

*Aesculus californica*. (California buckeye).

Dust made from nuts ST Mexican bean beetle. 1144.

*Aesculus glabra* Willd. (Ohio buckeye).

Alc. ext. of fruit and alc. ext. and decoction of leaves NT cotton caterpillars. 933.

*Aesculus hippocastanum* L. (Horse chestnut).

Ext. of leaves 5% T mosquito larvae. 643A.

*Aesculus pavia* L. (Red buckeye).

Bedsteads made of horse chestnut are said not to be infested by bugs. 933.

*Aesculus pavia alba*. (Dwarf buckeye).

Flowers attract and kill Japanese beetle. 643A.

Agaric, larch, see *Fomes officinalis*.

*Agaricus muscarius*, see *Amanita muscaria*.

*Agauria salicifolia* Hook. f. (Mgagana).

Listed as insecticidal in East Africa. 933B.

*Agave americana* L. (Centuryplant).

Infusion of leaves can be applied as an insecticide. 933.

*Agave lecheguilla* Torr. (Lechuguilla).

Infusions of roots ST fly larvae. 933.

*Ageratum* sp. (*Ageratum*).

Exts. were not repellent to Japanese beetle. 933B.

*Agrimonia eupatoria*. (*Agrimony*).

Acetone ext. of whole plant T mosquito larvae. 645.

- Agropyron repens* (L.) Beauv. (Quack grass).  
Acetone and water ext. of root 35% T mosquito larvae. 643A.
- Agrostemma githago* L. (Corncockle).  
NT fly larvae. 933.
- Ailanthus altissima* (Mill.) Swingle. (*Ailanthus glandulosa* Desf.; *ailanthus*).  
20% T mosquito larvae; decoction and infusion of leaves NT cotton caterpillars. 643A, 933.
- Ajuga reptans* Wall.  
In India on the Salt Range it was used to kill flies; plant was known to have insecticidal or repelling properties. 933B.
- Albizzia procera* (Roxb.) Benth.  
Used as fish poison and insecticide in India. 933B.
- Albizia stipulata* (Roxb.) Boiv.  
Used as fish poison and insecticide in India; exts. of leaves and bark NT bean aphid. 933B.
- Aletris farinosa*. (*Aletris*; unicorn).  
Acetone ext. of root 15% T mosquito larvae. 643A.
- Aleurites fordii* Hemsl. (Tung-oil tree).  
Ext. of leaves 40% T mosquito larvae, ext. of stems 5% and ext. of roots NT; used as adhesive against *Buceola fusca*; used to trap stink bug nymphs in southern China by banding; oil T cockroaches, Colorado potato beetle, and Mexican bean beetle eggs. 78, 643A, 780F, 781P, 933B, 1176.
- Algarroba, see *Ceratonia siliqua*.
- Allium ampeloprasum* var. *porrum* (L.) Regel. (Leek).  
In Belgium an infusion, made by keeping small pieces of plant for one week in water, was said to repel flies. 933B.
- Allium canadense* L. (Meadow garlic).  
Ext. were not repellent to Japanese beetle. 933B.
- Allium cepa* L. (Onion).  
Odor of onions stunned mosquitoes in 4 to 6 hrs. but they recovered. 933B.
- Allium sativum* L. (Garlic).  
Garlic bulbs stored with grain NT weevils; odor stunned mosquitoes in 5 to 10 min. and killed them in 5 hrs. 933B.
- Allium schoenoprasum* L. (Chive).  
Water ext. of whole plant 70% T mosquito larvae. 643A.
- Allspice*, see *Pimenta officinalis*.
- Almond, bitter, see *Amygdalus communis*.
- Almond, Indian, see *Terminalia catappa*.
- Aloe barbadensis* Mill. (*A. perfoliata* vera L.; *A. vulgaris* Lam.; barbadose aloe).  
Found as effective as insect powder on one occasion. 933.
- Aloe ferox* Mill. (Cape aloe).  
Bitter sap, used for dressing wounds, keeps off flies very effectively. 933.
- Aloe perfoliata* vera, see *Aloe barbadensis*.
- Aloe perryi*. (True socotrine aloe).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Aloe striatula* Haw.  
Said to attract flies in India. 933B.
- Aloe succotrina* Lam.  
In Germany a weak soln. of tincture of aloe recommended to rid plants of scale insects. 933B.
- Aloe vulgaris*, see *Aloe barbadensis*.
- Aloe* spp.  
Strong decoction with soap added gave good results against certain lepidopterous larvae and aphids; T clothes moth. 933, 1176, 1216P.
- Aloes*, barbadose, see *Aloe barbadensis*.
- Aloes*, cape, see *Aloe ferox*.
- Aloes*, socotrine, see *Aloe perryi*.
- Alpinia officinarum* Hance. (Galangal).  
Ext. were not repellent to Japanese beetle. 933B.
- Aline media*, see *Stellaria media*.
- Althea officinalis*.  
Acetone ext. of root T mosquito larvae. 645.
- Amanita muscaria* (L.) Pers. (*Agaricus muscarius* L.; fly agaric).  
Used as fly poison. 933.
- Amanita pantherina* Fr.  
Used as fly poison. 933.
- Amaranthus retroflexus* L. (Pigweed).  
Ext. were not repellent to Japanese beetle. 933B.
- Amber, rectified, oil of.  
T *Lucilia cuprina* larvae. 840.
- Ambrosia artemisiifolia* L. (*A. elatior* L.; ragweed).  
Aloh. ext. NT cotton caterpillars; exts. were not repellent to Japanese beetle. 933, 933B.
- Ambrosia trifida* L. (Great ragweed).  
Decoction, infusion, and aloh. ext. NT cotton caterpillars. 933.
- Amlanthium muscatosorum* A. Gray. (*Melanthium muscatosorum* Walt.; *Zigadenus muscatosorum* Regel; *Helonias erythrosperma* Michx.; *Chrosperma muscatosorum* (Walt.) Kuntze; crow poison).  
T houseflies; powdered bulbs and leaves T cockroaches, grasshoppers, and bees. 933.
- Anomum melegueta* Rosa.  
Decoction was rubbed on the skin of domestic animals in Africa to repel tsetse flies. 933B.
- Amorpha fruticosa* L.  
Roots, stems, and seeds reported to contain rotenone. 759.
- Amorphophallus campanulatus* (Roxb.) Blume.  
Odor of flower stalk attractive for bluebottle and other large flies. 933B.
- Amur cork tree, see *Phellodendron amurense*.
- Amygdalus amara*, see *Prunus amygdalus*.
- Amygdalus communis*, see *Prunus amygdalus*.
- Amygdalus persica*, see *Prunus persica*.
- Anabasis aphylla* L.  
Commercial source of anabasin, an alkaloid closely related to nicotine. 933B.
- Anacardium occidentale* L. (Common cashew).  
T culicine mosquito larvae. 643A.
- Anasyolus pyrethrum* (L.) DC.  
Ext. were not repellent to Japanese beetle. 933B.
- Anagallis arvensis* L.  
Used in India as insecticide or repellent. 933B.
- Anamirta cocculus* (L.) Wight and Arn. (*A. paniculata* Colebr.; *Menispermum cocculus* L.; *M. lacunosum* Lam.; *cocculus indicus*; fahberry).  
Acetone ext. of berries T mosquito larvae; used as fish poison. 27, 204, 645, 795, 933.
- Ananas comosus*. (*A. sativus* Schult.; pineapple).  
Attractant to oriental cockroach. 933B.
- Anatto tree, see *Bixa orellana*.
- Andira inermis* H. B. K.  
Used for fish poison. 795.
- Andira retusa* (Poir.) H. B. K.  
Used as fish poison. 795.
- Andira rosea* Mart. ("Pulverised wood").  
Used as fish poison. 795.
- Andiroba* tree, see *Carapa guianensis*.
- Androsace cordifolia* Muell. Arg.  
Used in India as insecticide. 933B.
- Andromeda ovalifolia*, see *Lyonia ovalifolia*.
- Andropogon zizanioides*, see *Vetiveria zizanioides*.
- Anemone*, American wood, see *Anemone quinquefolia*.
- Anemone pulsatilla* L. (European pasqueflower).  
Ext. were not repellent to Japanese beetle. 933B.
- Anemone quinquefolia* L. (American wood anemone).  
Ext. were not repellent to Japanese beetle. 933B.
- Anethum graveolens* L. (Dill).  
Acetone ext. of stems and leaves NT mosquito larvae; English oil T *Lucilia cuprina* larvae. 645, 840.
- Angelica archangelica* L. (*Archangelica officinalis* Hoffm.; angelica).  
Acetone ext. of root 40% T mosquito larvae; NT clothes moth and several species of insects; oil T *Lucilia cuprina* larvae. 42, 643A, 840, 933, 1024, 1176, 1268.
- Angel-trumpet, see *Datura metel*.
- Angophora lanceolata* Cav.  
Orange gum, which comes from this species, was unstable as emulsifier. 933B.
- Anilston.  
Water and aloh. exts. T bees; water ext. NT webworms and small caterpillars; powder, used as fumigant, NT small webworms but used as dust ST tent caterpillars and roaches; used as stomach poison ST roaches and silkworms but NT webworms and flies. 933.
- Anise, see *Pimpinella anisum*.
- Annona cherimola* Mill. (Chirimoya).  
Seed used as insecticide. 933.

- Annona glabra* L. (Pondapple).  
Powder of seed used as insecticide. 933.
- Annona maritima*.  
Seed 95% T, leaf 50%, root 43%, and stem NT chrysanthemum aphid. 1381.
- Annona palustris*.  
Leaf 100% T, root and stem NT chrysanthemum aphid. 1381.
- Annona reticulata* L. (Custardapple).  
Seed, stem, leaf, and root 100% T chrysanthemum aphid. 933, 1381.
- Annona spinosa* Mart.  
Seeds, powdered or in form of decoction, used as insecticide; pulp used as fish poison and for killing noxious insects. 795, 933.
- Annona squamosa* L. (Sugarapple).  
Leaf 100% T, root 35%, and stem NT chrysanthemum aphid; seeds T headlice and as parasiticide. 933, 1381.
- Annona* spp.  
Seeds used crushed to poison fish; milky juice of seeds remedy for scabies and used for destroying insects. 933B.
- Antennaria* spp. (Pussytoes).  
Exts. were not repellent to Japanese beetle. 933B.
- Anthemis arvensis* L. (Corn camomile).  
Exts. were not repellent to Japanese beetle; flowers NT flies; odor drives away mice and insects. 933, 933B.
- Anthemis cota* L.  
Flower heads T dog flea but NT flies and ants. 933.
- Anthemis cotula* L. (*Maruta cotula* DC.; mayweed).  
Decoction of leaves T all species of insects; powdered flower heads T bedbugs, fleas, but NT grain worms and other caterpillars; flowers NT flies. 933.
- Anthemis nobilis* L. (*Chamomilla nobilis* Godr.; common camomile).  
Flower heads have an action on insects similar to that of insect powder; NT fly larvae and flies. 933.
- Anthemis tinctoria* L. (Yellow camomile).  
Flowers T dog fleas but NT flies and ants. 933.
- Anthemis* spp.  
T mosquitoes. 933.
- Antheroporum plarrei* Gagnepain.  
Seeds reported to contain rotenone. 759.
- Anthriscus vulgaris* Pers. (European chervil).  
Leaves placed on anthills or scattered between rows of melons are reported to drive away ants. 933B.
- Antigonon leptopus* Hook. and Arn.  
Powder, used as dust, and the petroleum ether ext., used as spray, ST currant worms and four species of aphids. 933B.
- Antiotrema dunnianum* (Diels.).  
ST several insects. 837.
- Antirrhinum linaria*, see *Linaria vulgaris*.
- Antirrhinum* sp. (Snapdragon).  
Exts. were not repellent to Japanese beetle. 933B.
- Apium graveolens* L. (Celery).  
Oil T *Lucilia cuprina* larvae. 849.
- Aplotaxis lappa*, see *Senecio lappa*.
- Apocynum androsaemifolium* L.  
Exts. were not repellent to Japanese beetle. 933B.
- Apocynum cannabinum* L. (Dogbane).  
Exts. were not repellent to Japanese beetle. 933B.
- Apple, see *Malus sylvestris*.
- Apple, may, common, see *Podophyllum peltatum*.
- Apple, pond-, see *Annona glabra*.
- Apple, sugar-, see *Annona squamosa*.
- Apple, thorn, see *Datura stramonium*.
- Apurimacia inaequalis* Harms.  
Used as fish poison. 795.
- Aquilaria agallocha* Roxb.  
In India the powerful wood was preventive against fleas and lice. 933B.
- Arabisopsis thaliana* (L.) Britton. (Mouse-ear cress).  
Exts. were not repellent to Japanese beetle. 933B.
- Arachis hypogaea* L. (Peanut; groundnut).  
Many published papers discuss oil of peanut or groundnut as an insecticide and repellent. 933B.
- Aralia hispida* Vent. (Bristly aralia).  
Exts. were not repellent to Japanese beetle. 933B.
- Aralia nudicaulis*. (American sassafras).  
Acetone ext. of root 45% T mosquito larvae. 643A.
- Aralia racemosa* L. (American spikenard).  
Exts. were not repellent to Japanese beetle. 933B.
- Arbor vita, see *Thuja occidentalis*.
- Arbutus*, trailing, see *Epigaea repens*.
- Archangelica officinalis*, see *Angelica archangelica*.
- Aretium minus* Bernh. (Common burdock).  
Exts. were not repellent to Japanese beetle; acetone ext. of roots 5% T mosquito larvae. 933B.
- Aretium* sp. (Burdock).  
Acetone ext. of root 5% T mosquito larvae. 643A.
- Arctostaphylos uva-ursi* (L.) Spreng. (Bearberry).  
Ext. (U.S.P.) was more or less repellent to Japanese beetle. 933B.
- Ardalis crispata* A. DC. var. *dialecti* Walker.  
Dust of root T newly hatched larvae of Mexican bean beetle; root used for the medication of mange. 837.
- Arceuthobium*. (*A. catesbeu*).  
Acetone ext. of fruit NT mosquito larvae. 645.
- Argemone frutescens* A. Gray.  
Oil extracted from plant destroyed larvae attacking lumber. 933B.
- Argemone mexicana* L. (Mexican or pricklypoppy).  
In Mysore, India the juice used for itch and scabies; yellow juice and cold-drawn oil of seeds useful for scabies; oil from seeds prevents attacks of white ants and borers. 933B.
- Argyrea speciosa* Sweet. (*A. nervosa* (Burm.) Bojer; elephant creeper).  
In India the juice, mixed with gingelly oil and dill seed, used as an external application for scabies. 933B.
- Arisaema consanguineum* Schott.  
Roots show fairly low toxicity. 837.
- Arisaema dracontium* L. (Schott). (*Arum dracontium* L.; dragonroot; Indian turnip).  
Corm used to kill insects. 933.
- Arisaema japonicum* Blume.  
Roots used in Japan as insecticide. 933.
- Arisaema purpureogaleatum* Engl.  
Roots show fairly low toxicity. 837.
- Arisaema speciosum* Mart.  
Used as insecticide in India. 933B.
- Arisaema tortuosum* Schott.  
Roots used as insecticide. 933.
- Arisaema triphyllum* (L.) Schott. (Jack-in-the-pulpit).  
Exts. were not repellent to Japanese beetle. 933B.
- Aristolochia bracteata* Retz.  
In India leaves, freshly bruised and mixed with castor oil, were considered a valuable remedy in obstinate cases of itch; natives squeezed juice into wounds to kill worms. 933B.
- Aristolochia brasiliensis* Mast.  
Insects visiting this species are killed. 933.
- Aristolochia cornuta* Mast.  
Insects visiting this species are killed. 933.
- Aristolochia elegans* Mast.  
Insects visiting this species are killed. 933.
- Aristolochia grandiflora* Sw.  
Used as fish poison; bark and seeds T cabbage butterflies. 933B.
- Aristolochia indica* L.  
Alch. exts. 100% T following caterpillars: *Prodenia litura*, 5% ext. of leaves, *Euproctis fraternus*, a 3% ext. of leaves, stems, or fruit; 20% water suspension of powdered leaves and stems 43% T nymphs of mango hopper. 933B.
- Aristolochia maxima* L.  
Used as fish poison; bark and seeds T cabbage butterflies. 933B.
- Aristolochia reticulata* L. (Texas snake-root).  
Acetone ext. of root T mosquito larvae. 645.
- Aristolochia retunda* L. (Rothd-rooted birthwort).  
In India roots were used in treatment of itch and lice. 933B.
- Aristolochia serpentaria* L. (Virginia snake-root).  
Acetone ext. of root T mosquito larvae. 645.
- Armeria lappathifolia*. (*A. rusticana* Gaertn.; *Rorippa armeria*; *Radicula armeria* (L.) Robinson; hore-radish).  
Oil is repellent to oriental cockroach; exts. were not repellent to Japanese beetle; acetone ext. of root NT mosquito larvae. 645, 933B.

*Aranea alpina* (L.) Olin and Leduc.

Exts. were not repellent to Japanese beetle. 933B.

*Aranea montana* L.

Acetone ext. of flowers NT mosquito larvae. 645.

Arrow-wood, Virginia, see *Peltandra virginica*.

Arrowwood, see *Viburnum dentatum*.

*Artabotrys suaveolens* Blume.

NT chrysanthemum aphid. 933B.

*Artemisia abrotanum* L. (Old man; southernwood).

Acetone ext. of leaves, stems, and flowers NT mosquito larvae. 643A, 645.

*Artemisia absinthium* L. (*Absinthium vulgare* Lam.; common wormwood).

Acetone ext. of leaves, stems, and flower heads T mosquito larvae; leaf ext. 15% T mosquito larvae; oil T *Lucilia cuprina* larvae; T as mothproofing agent. 188P, 643A, 645, 849, 933, 1175.

*Artemisia dracunculoides* Pursh.

Ext. was not repellent to Japanese beetle. 933B.

*Artemisia paniculata*. (Levant wormseed).

Oil MT oriental cockroach; santonin (100 p.p.m.), derived from this species, 10% T mosquito larvae. 933B.

*Artemisia sacrorum* Ledeb. (Russian tarragon).

Acetone ext. of leaves and stem 15% T mosquito larvae. 643A.

*Artemisia tridentata* Nutt. (Sagebrush).

Cold and hot water exts. NT silkworm, webworm, potato beetle larvae, rose aphids, and nasturtium aphids, but slowly killed bees. 933.

*Artemisia vulgaris* L. (Mugwort).

Acetone ext. of tops and seeds T mosquito larvae. 645.

*Artocarpus heterophyllus*. (*A. integrus* (Thunb.) Merrill; *A. integrifolius* L. f.; Indian jack tree). Juice of root mixed with pulp of fruit and some sugar was made into plaster and applied to obstinate herpes. 933B.

*Arum dracontium*, see *Arisaema dracontium*.

*Arum dracunculoides*, see *Dracunculus vulgaris*.

*Arum venosum*, see *Sauromatum guttatum*.

*Arum viviparum*, see *Ranunculus viviparus*.

*Asafetida*, see *Ferula assafoetida*.

*Asagracea officinalis*, see *Schoenocaulon officinale*.

*Aserum canadense* L. (Canada snake-root).

Water ext. of button 10% T mosquito larvae. 643A.

*Asclepias acida*, see *Sarcostemma brevistigma*.

*Asclepias bulboha*, see *A. incarnata*.

*Asclepias curassavica* L. (Bloodflower).

Indians of southern Mexico sweep the floor and walls of their huts with this species and they are not troubled with fleas. 933.

*Asclepias incarnata* L. var. of *A. bulboha* (Ehrh.) Pers.

Exts. were not repellent to Japanese beetle. 933B.

*Asclepias rosea*, see *Oxystelma esculentum*.

*Asclepias syriaca* L. (Milkweed).

Acetone ext. of stems NT mosquito larvae. 645.

*Asclepias tuberosa* L. (Butterflyweed; pleurisy).

Acetone and water ext. of root NT mosquito larvae. 643A, 933.

Asebo, see *Pieris japonica*.

Asemi, see *Pieris japonica*.

Ash, American mountain, see *Sorbus americana*.

Ash, common prickly, see *Zanthoxylum americanum*.

Ash, herulesdub prickly, see *Zanthoxylum elavaherulla*.

Ash, wafer, see *Ptelea trifoliata*.

Ash, white, see *Fraxinus americana*.

*Asimina* sp. (Pawpaw).

Of no value as mosquito repellent. 93.

*Asparagus officinalis* L. (Asparagus).

Used as dust NT codling moth larvae. 933B.

*Asperula odorata* L. (Sweet woodruff).

Acetone ext. of leaves and stems NT mosquito larvae. 645.

*Aspidium filix-mas*, see *Dryopteris filix-mas*.

*Aspidosperma sceadiflorum* Allen.

Leaves and fruit used as fish poison. 795.

Aster, golden, see *Chrysopsis mariana*.

Aster *lynceus*, see *Linceysia vulgaris*.

Aster *novae-angliae* L. (New England aster).

Exts. from fresh leaves and flowers were more or less repellent to Japanese beetle. 933B.

Exts. were not repellent to Japanese beetle. 933B.

*Aster trifolium* L.

Flowers NT flies. 933, 933B.

Aster, whitetop-, see *Sericocarpus asteroides*.

*Astragalus gummifer* Labill.

Tragacanth gum, with oil, unstable as emulsifier. 933B.

*Astragalus* spp. (Locoweeds).

Poisonous to honeybees. 933B.

*Atractylis evata* Thunberg.

Used in China for fumigating grain stores. 933B.

*Atropa belladonna* L. (Belladonna).

Alch. ext. and decoction of leaves NT cotton caterpillars. 933.

*Atropa physalodes*, see *Nicandra physalodes*.

*Atropa* spp.

T clothes moth. 517P, 1175.

*Aucklandia costus*, see *Saussurea lappa*.

*Aureolaria pedicularis* (L.) Raf. (Gerardia).

Exts. of leaves and flowers were repellent to Japanese beetle. 933B.

*Aureolaria virginica* (L.) Pennell. (*Dasystoma flavo*).

Plant was reputed to prevent attacks of flies on horses. 933, 933B.

*Asadirachta indica*, see *Melia asadirachta*.

*Azaleum*, see *Chrysanthemum* sp.

*Azalea nudiflora* L. (Pinxterbloom).

Exts. were not repellent to Japanese beetle. 933B.

*Asedarach commelini*, see *Melia asedarach*.

*Asedarach delateria*, see *Melia asadirachta*.

*Asedarach odoratum*, see *Melia asedarach*.

*Azolla caroliniana* Willd.

Recommended in Austria as good plant to raise in stagnant waters to prevent development of mosquitoes. 933B.

*Azolla* sp.

When grown in water where mosquitoes breed, check the breeding by preventing larvae from getting air. 933.

Babchi, see *Psoralea corylifolia*.

Babool tree, see *Acacia nilotica*.

Babooter, see *Excoecaria agallocha*.

*Baccharis floribunda* H. B. K. (Niquitau).

Niquitau used in Venezuela for killing insects. (Niquitau may not be identical with niquitau.) 933B.

*Baccharis sarothroides* Gray. (Broom baccharis).

Ext. of seed NT mosquito larvae. 643A.

*Baileya multiradiata*. (Desert baileya).

Acetone and water ext. of flowers NT mosquito larvae. 643A.

*Balanites roxburghii* Planch.

Used in India as fish poison and as insecticide; bark powder gave best results against aphids; exts. of different parts of plants with methyl alch., chloroform, ether, etc., were about 10 times as toxic to insects as were crude powders; 5% alch. ext. of stem bark 70% T adult grasshoppers and 6% ext. 80% T caterpillars. 933B.

Balbes.

Water ext. T silkworms. 933.

Balekatta.

7.5% Alch. ext. of creeper 100% T adult grasshoppers, and 3% ext. 70% T one species caterpillars and 100% T to another. 933B.

Balm, citronella horse, see *Collinsonia canadensis*.

Balm, common, see *Melissa officinalis*.

Balm-of-Gilead, see *Populus canadensis*.

Balm, spotted bee, see *Monarda punctata*.

Balsam, garden, see *Impatiens balsamina*.

Balsam-pear, see *Momordica charantia*.

*Balsamodendron playfairii* Hook. f.

Opaque, whitish gum resin, used by Arabs and Somalis as soap to kill lice. 933B.

Bamboo brier, see *Smilax bona-nox*.

Bambusa arundinacea Retz. (*B. orientalis* Nees; spiny bamboo).

In India the most efficacious application for dislodgment of worms in ulcers was a poultice made by pounding the young shoots of bamboo. 933B.

Banana, see *Musa sapientum*.

*Bandeiraea simplicifolia* Benth. (Mogyaw).

Leaves used to kill lice in hen houses in Gold Coast, Africa. 933B.

- Baptisia tinctoria* (L.) R. Br. (*Sophora tinctoria* L.; yellow wild indigo).  
Plants placed in harness keep flies from horses; alch. ext. and decoction NT cotton caterpillars; exts. were not repellent to Japanese beetle; acetone ext. of root T mosquito larvae. 645, 933, 933B.
- Barbarea vulgaris* R. Br. (*Campis barbarea* (L.) W. F. Wight; bitter wintercress).  
Ext. were not repellent to Japanese beetle. 933B.
- Barberry, see *Berberis vulgaris* L. var. *atropurpurea* Reg. and *Berberis* sp.
- Barbiera pinnata* (Pers.) Baill.  
Branches used as fish poison. 795.
- Barosma betulina* (Thunb.) Barth. and Wendl. (Buchu).  
Ext. were not repellent to Japanese beetle. 933B.
- Barringtonia acutangula* (L.) Gaertn.  
Juice of leaves mixed with oil was made into an ointment for scabies. 933B.
- Barringtonia asiatica* Kura. (*B. speciosa* Forst.).  
Alch. exts. of bark of these fish poison trees from Australia were NT bean aphid. 933B.
- Barringtonia careya* F. Muell. (*Careya australis* F. Muell.).  
Alch. ext. of bark of this fish poison tree from Australia were NT bean aphid. 933B.
- Barringtonia excoelea* Blume. (*Chydenanthus excoelea* Mayr.).  
Water ext. of seed kernels NT caterpillars. 933B.
- Barringtonia racemosa* (L.) Roxb.  
Used in India as fish poison and as insecticide; 2.5 and a 2% alch. ext. of bark 100 and 98% T aphids, while a 0.5% of 40% nicotine sulfate soln. 95% T; sample of bark from Kenya NT bean aphid. 933B.
- Barringtonia speciosa*, see *Barringtonia asiatica*.
- Barringtonia* spp.  
5% Water ext. of bark of this Malayan fish poison tree ST moth larvae; plants may be of value as insecticides in Solomon Islands, seeds included. 933B.
- Basil, see *Ocimum viride*.
- Basil, common, see *Ocimum basilicum*.
- Basil, sacred, see *Ocimum sanctum*.
- Basil, sweet, see *Ocimum basilicum*.
- Bassia butyracea*, see *Madhuca butyracea*.
- Bassia latifolia*, see *Madhuca latifolia*.
- Bassia longifolia*, see *Madhuca longifolia*.
- Bauhinia guianensis* Aubl.  
Branches used as fish poison. 795.
- Bayberry, northern, see *Myrica pensylvanica*.
- Bayrum tree, see *Pimenta racemosa*.
- Beads, prayer, see *Abrus precatorius*.
- Bean, buck, see *Mensyanthes trifoliata*.
- Bean calabar, see *Physostigma venenosum*.
- Bean, carob, see *Ceratonia siliqua*.
- Bean, crab's eye, see *Abrus precatorius*.
- Bean, tonka, see *Dipteryx odorata*.
- Bean, vanilla, see *Vanilla planifolia*.
- Bean, yam, see *Pachyrhizus erosus*.
- Bearberry, see *Arctostaphylos uva-ursi*.
- Bedstraw, see *Gallium aparine*.
- Bedstraw, fragrant, see *Gallium triflorum*.
- Beech, American, see *Fagus grandifolia*.
- Beet, sugar, see *Beta vulgaris*.
- Belladonna, see *Atropa belladonna*.
- Bengo, see *Sesamum indicum*.
- (*Benthameantha* is synonymous with *Cracca* and probably with *Tephrosia*).
- Benthameantha caribaea* Benth.  
Reported to contain rotenone. 759.
- Benthameantha mollis* Benth.  
Reported to contain rotenone. 759.
- Benthameantha ochroleuca* Benth.  
Reported to contain rotenone. 759.
- Benzoin acutiale*, see *Lindera benzoin*.
- Benzoin gum, see *Styrax benzoin*.
- Berberis aquifolium*, see *Mahonia aquifolium*.
- Berberis aristata* DC.  
Bark used in India as fish poison and as insecticide. 933B.
- Berberis vulgaris* L. var. *atropurpurea* Reg.  
Acetone ext. of root and stem 10% T mosquito larvae. 643A.
- Berberis* sp.  
Acetone ext. of root 70% T mosquito larvae. 643A.
- Berberis*, see *Milletia ferruginea*.
- Bergamot, oil of, see *Citrus bergamia*.
- Beta vulgaris* L. (Sugar beet).  
Betaine hydrochloride NT as mothproofing agent; betaine fluosulfonate used for preserving textile fabrics. 933B.
- Betony, see *Lycepus virginicus*.
- Betony, common, see *Stachys officinalis*.
- Betula lenta* L. (Sweet birch).  
Water ext. of bark 10% T mosquito larvae. 643A.
- Betula pendula* L. (*B. alba* L.; white birch).  
Oil of betulae T *Lucilia cuprina* larvae; in chemo-tropic tests in field with oil of birch tar negative results were obtained. 849, 933B.
- Bibo, see *Heligmaria amothiana*.
- Bignonia radicans*, see *Campsis radicans*.
- Bihmona, see *Gardenia campanulata*.
- Bikukulla canadensis*, see *Dicentra canadensis*.
- Birch, sweet, see *Betula lenta*.
- Birch, white, see *Betula pendula*.
- Birchwort, round-rooted, see *Aristolochia rotunda*.
- Bitter apple, see *Citrullus colocynthis*.
- Bitter cucumber, see *Citrullus colocynthis*.
- Bitter extract.  
T as mothproofing agent. 1176, 1209P.
- Bitter gourd, see *Citrullus colocynthis*.
- Bittersweet, American, see *Celastrus scandens*.
- Bitter tree, see *Celastrus angulatus*.
- Bitterweed, see *Helenium tenuifolium*.
- Bitterwood, see *Pterocarpus excoelea*.
- Bixa orellana* L. (Anatto tree).  
Seed pulp used by American Indians to paint their bodies for full dress, and as preventative for mosquito bites. 933B.
- Black-boy tree, see *Xanthorrhoea hastilis*.
- Black haw, see *Viburnum prunifolium*.
- Blackthorn, see *Prunus spinosa*.
- Blessed thistle, see *Calous benedictus*.
- Blinding tree, see *Excoecaria agallocha*.
- Bloodflower, see *Asclepias curassavica*.
- Bloodroot, see *Sanguinaria canadensis*.
- Blueberry, see *Vaccinium* sp.
- Blue-eyed grass, see *Sisyrinchium* sp.
- Blumea aurita* DC. (Plaadura).  
This plant has been suggested for driving away insects in the Gold Coast, Africa, and as a possible source of insect powder. 933B.
- Blumea lacera* (Roxb.) DC. (Numurdi):  
Natives of Konan, near Bombay, used plant to drive away fleas and other insects; it was suggested as possible source of insect powder. 933B.
- Bocconia cordata*, see *Macleaya cordata*.
- Bocconia frutescens* L.  
Juice effective against injurious insects and ticks. 933B.
- Boeninghausenia albiflora* (Hook.) Heynhold.  
Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.
- Boerhavia diffusa* L.  
Used in Gold Coast to keep away lice, was probably an instance of sympathetic magic. 933B.
- Boldo, see *Peumus boldus*.
- Bolemba, see *Ostrya dennis gabonica*.
- Boneset, see *Eupatorium perfoliatum*.
- Borage officinalis L. (Common borage).  
Ext. were not repellent to Japanese beetle. 933B.
- Borassus flabellifer* L.  
Used in India to relieve itch. 933B.
- Boswellia carteri* Birdw. (Frankincense).  
In India burned in houses to keep away mosquitoes; unstable as emulsifier. 933B.
- Boswellia serrata* Roxb.  
Used as insecticide in Sind, India. 933B.
- Bovista giganteum*, see *Calvatia gigantea*.
- Bowdichia virallioides H. B. K.  
Used as fish poison in northern South America and Brazil. 795.
- Box tree, see *Buxus sempervirens*.
- Bracken, see *Pteridium aquilinum*; P. latissimum.
- Bramia monieri* (L.) Pennell. (*Harpestis monieri* H. B. K.).  
Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.



- Brassica hirta*. (*Sinapis alba*; yellow English mustard).  
Aestons ext. of seeds T mosquito larvae. 645.  
*Brassica juncea* (L.) Czec.  
Ext. were not repellent to Japanese beetle. 933B.  
*Brassica nigra* (L.) Koch. (Black mustard).  
Water ext. of seed HT mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.  
*Brassica oleracea capitata* L. (Cabbage, cultivated).  
Ext. were not repellent to Japanese beetle. 933B.  
*Brassica* spp. (Mustard, rape, etc.).  
Mustard oil derived from seeds of various sp. of *Brassica* (*Sinapis*), Chinese colza oil from *B. campestris* L., and rape oil probably from *B. napus* L.; oils used in emulsions, as insecticides, and occasionally as repellents; ground mustard and synthetic mustard oil were both T *Agriotes mancus*; oil T *Lucilia cuprina* larvae. 849, 933B, 1896.  
*Brauneria* sp. (Echinacea).  
Aestons ext. of root 100% T mosquito larvae. 643A.  
Broadfruit tree, see *Pandanus tectorius*.  
Brook eucynus, see *Eucynus americanus*.  
Broom, see *Genista* sp.  
Broom, European, see *Genista germanica*.  
Broom, Scotch, see *Cytisus scoparius*.  
*Bryonia alba* L. (White bryony).  
Root and other parts used against aphids. 933.  
Bryony, black, see *Tamus communis*.  
*Buehania latifolia* Roxb.  
In India this plant was believed to cure itch. 933B.  
Buchu, see *Barosma betulina*.  
Buckbean, see *Mesyanthes trifoliata*.  
Buckeye, California, see *Aesculus californica*.  
Buckeye, dwarf, see *Aesculus pavia alba*.  
Buckeye, Ohio, see *Aesculus glabra*.  
Buckeye, red, see *Aesculus pavia*.  
Buckthorn, alder, see *Rhamnus frangula*.  
Buckthorn, common, see *Rhamnus cathartica*.  
Buckwheat, see *Fagopyrum sagittatum*.  
*Buddleia brasiliensis* Jacq.  
Used as fish poison. 795.  
*Buddleia lindleyana* Fortune.  
Gave low mortality to several species of insects. 837.  
Bugbane, cohosh, see *Cimicifuga racemosa*.  
Bugbane, fetid, see *Cimicifuga foetida*.  
Bugleweed, see *Lycopus virginicus*.  
Bunchflower, see *Melanthium virginicum*.  
Burdock, see *Atractum* sp.  
Burdock, common, see *Atractum minus*.  
Burningbush, European, see *Eucynus europaeus*.  
Burweed, see *Sparganium americanum*.  
*Bursa bursa-pastoris*, see *Capsella bursa-pastoris*.  
*Bursaria paniculata*. (Oil of linaleol or lignaleol Mexican wood)  
T *Lucilia cuprina* larvae 849  
*Butea monosperma* (Lam.) Taub. (*B. frondosa* Roxb.; butes; kino gum).  
In India seeds used for cure of dhobies itch and as insecticide; with oils, a stable emulsifier. 933B.  
Butter-and-eggs, see *Linaris vulgaris*.  
Buttercup, see *Ranunculus septentrionalis*.  
Butterflyweed, see *Asclepias tuberosa*.  
Butternut, see *Juglans cinerea*.  
Butterwort, see *Pinguicula vulgaris*.  
Buttonbush, see *Cephalanthus occidentalis*.  
*Buxus sempervirens* L. (Box tree).  
Ext. from leaves were more or less effective repellents against Japanese beetle. 933B.  
*Byrronia crassifolia* (L.) DC.  
Used as fish poison. 795.  
Cabbage, cultivated, see *Brassica oleracea capitata*.  
Cabbage, skunk, see *Symplocarpus foetidus*.  
Cacao, see *Theobroma cacao*.  
Cachou, see *Asclepias cathartica*.  
*Cacopsis coccinea* Aubl.  
Ext. of shells and kernels of fruit from British Guiana NT bean aphid. 933B.  
Cactus, see *Cereus* sp.  
Cade, oil of, see *Juniperus oxycedrus*.  
*Caesalpinia coriaria* Willd. (Divi-divi).  
Commercial ext. was effective repellent against Japanese beetle. 933B.  
*Caesalus indicus* Spreng.  
Of no value as insecticide. 933B.  
Cajuput, oil of, see *Melaleuca leucadendron*.  
*Caladium bicolor* (Ait.) Vent.  
Powdered leaves used as insecticide. 933.  
Calamus, see *Acorus calamus*.  
*Callilepis laureola* DC.  
Powdered roots used as insecticide. 933.  
*Callitris quadrivalvis* Vent. (Sandarae tree).  
With oils, unstable as emulsifier. 933B.  
*Calophyllum inophyllum* L. (Alexandrian laurel).  
Seeds or berries contained nearly 60% of a fixed oil, which was used for medicinal purposes, being considered cure for itch; in India fixed oil from seed kernels used to cure scabies; ext. of bark used as fish poison in East Africa, little effect on citrus aphids. 933B.  
*Calophyllum spectabile* Willd. (Kulit bentanor).  
5% Water ext. of bark NT larvae of *Persea herbifera*, similar ext. of roots T 1/5 of larvae tested. 933B.  
*Calophyllum wightianum* Wall. (*C. spurium* Choisy).  
In India oil from seeds used in cutaneous affections, and an infusion mixed with honey used for scabies. 933B.  
*Calopogonium oerulesum* Hernal.  
Seeds (hypocotyl) reported to contain rotenone. 750.  
*Calopogonium orthocarpum* Urb.  
Seeds (hypocotyl) reported to contain rotenone. 750.  
*Calopogonium velutinum* Benth. (Catinga de macaco).  
Alch. ext. of this fish poison plant used in Brazil against locs and ticks. 933B.  
*Calotropis gigantea* (Willd.) R. Cr.  
Plant used as insect deterrent in India; 5% alch. ext. of stems 55% T caterpillars. 933B.  
*Calotropis procera* Ait. (Swallowwort).  
Water ext., macerated juices, and dusts of leaves NT citrus psylla, aphids, and lucerne weevil grubs; leaves T fowl lice. 933B.  
*Caltha palustris* L. (Marsh marigold).  
Ext. were not repellent to Japanese beetle. 933B.  
*Calvatia gigantea* (Pers.) Cunningham. (*Lycoperdon bovista* L.; *L. giganteum* Batsch., *L. caelatum* Fries.; *Bovista giganteum* Nees; giant puffball).  
Used in its mature condition as styptic and for stupefying bees, spores may be used in same way as flowers of sulfur; powder T insects. 933, 933B.  
*Camellia sinensis* (L.) Ktze (*Thea sinensis* L.; tea).  
Addition of oil of tea increased toxicity of derris to squash bug. 933B.  
*Camellia* spp.  
In China the toxic property of seeds of camellia was due entirely to a saponin, which was about one-fiftieth as toxic as rotenone to goldfish; larvae of a sawfly, tent caterpillars, and silkworms refused to eat leaves with the saponin on them 933B.  
Camomile, common, see *Anthemis nobilis*.  
Camomile, corn, see *Anthemis arvensis*.  
Camomile, German false, see *Matricaria chamomilla*.  
Camomile, scentless false, see *Matricaria inodora*.  
Camomile, yellow, see *Anthemis tinctoria*.  
*Campe barbarea*, see *Barbarea vulgaris*.  
Camphor tree, see *Cinnamomum camphora*.  
Camphor, oil of, see *Cinnamomum camphora*.  
*Campsis radicans* (L.) Seem. (*Synonyma radicans* L.; trumpet creeper).  
Ext. were not repellent to Japanese beetle. 933B.  
*Camptosema? pinnatum* Benth. (*Psidium erythrae* Vell., not L.).  
Doubtful species, not known certainly as fish poison in Brazil. 795.  
*Cananga odorata*. (Cananga; ylang-ylang).  
Oil T *Lucilia cuprina* larvae. 849.  
*Canella winterana* Gaertn. (*C. alba* Murr.; canella; wild cinnamon).  
Baravol, made from roots, gave fair results in control of ox warbles in lowland cattle of South America; ext. were not repellent to Japanese beetle. 933B.  
*Cannabis sativa* L. (Common hemp).  
Combing or leaves, scattered among bags and heaps of grain in India, T weevils; 2% ext. of hemp in sugar soln. NT housefly; commercial ext. of this species, called *Cannabis indica*, NT bean aphid; ext. were not repellent to Japanese beetle; alch. solns. of hemp constituents used for moth-proofing wool; ext. applied as sprays against adult mos-

- quitoes were much inferior to standard mosquito-cide. 933B, 1175, 1357P.
- Cassia sp.**  
Stems and leaves contain effective principle which will give as satisfactory results as tobacco in greenhouse fumigation. 933B.
- Caper**, common, see *Capparis spinosa*.
- Capparis aphylla** Roth. (Dela).  
Water exts., macerated juices, and dusts of leaves had little effect on citrus psylla, aphids, and lucerne weevil grubs in India; used in Sind, India as insecticide. 933B.
- Capparis spinosa** L. (*C. murrayana* Graham; common caper). In India juice of fresh plant was dropped into the human ear to kill worms. 933B.
- Cappriola dactylon**, see *Cynodon dactylon*.
- Capsella bursa-pastoris** (L.) Medic. (*Bursa bursa-pastoris* (L.) Britton; shepherd's-purse).  
Ext. of entire plant were repellent to Japanese beetle; acetone ext. whole plant NT mosquito larvae. 645, 933B.
- Capsicum frutescens** L. (*C. annuum*; African pepper; chillies; bird pepper; cayenne pepper; common red-pepper).  
Acetone ext. of fruit T mosquito larvae; NT bed-bug, cockroach, and dog flea. 645, 933.
- Carapa fasciculata** Camb.  
This species furnished one of resins used as insecticide and as cure for itch. 933B.
- Carapa guianensis** Aubl. (Andiroba or carapa tree; *Xylocarpus carapa* Spreng.).  
Decoction used as insecticide. 933.
- Carapa procera** DC. (Crabwood).  
Seeds contain large percentage of crab oil which is used as insecticide in Gold Coast, Africa. 933B.
- Caraway**, oil of, see *Carum carvi*.
- Cardamom**, oil of, see *Elettaria cardamomum*.
- Cardinalflower**, see *Lobelia cardinalis*.
- Coreya australis**, see *Barringtonia coreya*.
- Carissa carandas** L. (*C. congesta* Wight.).  
In India used to keep off flies, and when pounded with lime juice and camphor as remedy for itch. 933B.
- Carrageen**, see *Chondrus crispus*.
- Carrot**, wild, see *Daucus carota*.
- Carthamus tinctorius** L. (Safflower).  
In Bengal oil was considered to be valuable remedy for itch. 933B.
- Carum bulbocastaneum** (L.) Koch.  
Used in India to protect clothes and skins against ravages of insects. 933B.
- Carum carvi** L. (Caraway).  
Ext. of seeds T ants and 90% T mosquito larvae; oil T *Lucilia cuprina* larvae. 127, 643A, 645, 849.
- Caryone**. (Oil of carvol).  
Oil T *Lucilia cuprina* larvae. 849.
- Carya glabra** Spach. (*C. porcina* Nutt.; *Juglans glabra* Mill.; *Hicoria glabra* (Mill.) Britton; pignut).  
Horses washed with infusion of leaves in water prevents the annoyance of flies. 933.
- Carya sp.** (Hickory).  
Ext. from fresh leaves were repellent to Japanese beetle. 933B.
- Caryocarpus amygdaliferum** Mutis.  
Used as fish poison. 795.
- Caryocarpus glabrum** (Aubl.) Pers.  
Used as fish poison. 795.
- Caryophyllus aromaticus**, see *Synygium aromaticum*.
- Cascara sagrada**, see *Rhamnus purshiana*.
- Cascarilla**, see *Croton eluteria*.
- Cashew nut oil**, see *Anacardium occidentale*.
- Cassava**, sweet, see *Manihot dulcis*.
- Cassia aestuifolia**. (Alexandria senna; senna).  
Acetone ext. of pods T mosquito larvae. 645.
- Cassia alata** L.  
Branches used as fish poison. 795.
- Cassia angustifolia** Vahl. (Congo senna).  
Acetone ext. of leaves and pods T mosquito larvae; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquito-cide. 645, 933B.
- Cassia badellaria** L. f.  
Sprays containing exts. of leaves and seeds ST citrus aphids. 933B.
- Cassia biffora** L.  
Used as fish poison. 795.
- Cassia chamaecrista**, see *C. fasciculata*.
- Cassia didymobotrya** Pres.  
Used as fish poison; seeds and leaves MT citrus aphids; an amorphous solid from alc. exts. was 100% T aphids and one from oily resin 37.5% T; exts. of roots, leaves, and seeds ST bean aphid. 933B.
- Cassia fasciculata** Michx. (*C. chamaecrista* L.; part-ridge-pea).  
Ext. were not repellent to Japanese beetle. 933B.
- Cassia fistula** L.  
Alch. exts. and water suspensions NT caterpillars. 933B.
- Cassia, foetid**, see *Cassia tora*.
- Cassia herbecarpa** Fern. (*C. marilandica* Am. Auth.; wild senna).  
Ext. were not repellent to Japanese beetle. 933B.
- Cassia hirsuta** L.  
Root used as fish poison. 795.
- Cassia lavigata** Willd.  
Sprays containing exts. of leaves and seeds had slight toxic effect on citrus aphids. 933B.
- Cassia marilandica**, see *Cassia herbecarpa*.
- Cassia multiflora** Rich.  
Sprays containing exts. of leaves and seeds ST citrus aphids. 933B.
- Cassia occidentalis** L. (Coffee senna).  
Alch. ext. and decoction ST cotton caterpillars, but NT cockroaches. 933.
- Cassia**, oil of, see *Cinnamomum cassia*.
- Cassia sophora** L. (*Senna sophora* Roxb.; *S. purpurea* Roxb.).  
In India both powdered seeds made into plaster and an ointment made of bruised seeds and leaves with sulfur were used for itch; sap good specific for dhobie itch. 933B.
- Cassia stipulacea** Ait.  
Leaves used as insecticide. 933.
- Cassia tora** L. (Foetid cassia).  
In India leaves and seeds remedy for itch. 933B.
- Cassia sp.**  
NT cockroaches. 933B.
- Cassytha filiformis** L.  
Used as insecticide in India. 933B.
- Castanea dentata** (Marsh.) Borkh. (American chestnut).  
Commercial ext. effective repellent against Japanese beetle. 933B.
- Castorbean plant**, see *Ricinus communis*.
- Castoroil plant**, see *Ricinus communis*.
- Catalpa bignonioides** Walt. (Catalpa).  
Juice from leaves and beans ST bees. 933.
- Catalpa ovata** Don.  
Acetone ext. of leaves 10% T mosquito larvae. 643A.
- Catchfly**, sleepy, see *Silene antirrhina*.
- Catechu**, see *Acacia catechu*.
- Catinga de macaco**, see *Calopogonium vellatum*.
- Catnip**, see *Nepeta cataria*.
- Cattail**, common, see *Typha latifolia*.
- Cattail**, narrowleaf, see *Typha angustifolia*.
- Caulophyllum thalictroides** (L.) Michx. (Blue cohosh).  
Ext. were not repellent to Japanese beetle. 933B.
- Causia** and **Cabolleja**.  
NT winged forms of fruit maggots. 933.
- Ceanothus americanus** L. (Jersey-tea).  
Ext. from leaves and flowers were repellent to Japanese beetle. 933B.
- Cedar**, ground, see *Lycopodium complanatum*.
- Cedar**, red, see *Juniperus virginiana*.
- Cedar**, white, see *Chamaecyparis thyoides*.
- Cedar wood oil**, see *Juniperus virginiana*.
- Cedro oil**, see *Citrus medica* var. *limonum*.
- Celandine**, see *Chelidonium majus*.
- Celastrus angulatus** Max. (Bitter tree).  
Powdered leaves and root bark T cabbage beetle; in field tests against adults of another cabbage leaf beetle, powdered root bark 94% and an alc. ext. 91% T; powdered leaves 92% and an alc. ext. of leaves, 84% T; ground bark used as dust or spray against garden insects in China; exts. used as contact sprays, NT aphids. 933B.
- Celastrus montana**, see *Gynanthera*.

- Calcestrus scandens* L. (American bitterweed).  
Exts. were not repellent to Japanese beetle. 933B.
- Calcestrus* sp.  
No kill with several insects, except codling moth. 837.
- Calery, oil of, see *Apium graveolens*.
- Celtis sinuata* Lindl.  
This plant, scraped fine and mixed with lemon juice, was used in India to anoint body to cure itch. 933B.
- Centaurium umbellatum* Gilib. (Centaur gentian).  
Decoction of whole plant T lice and cured the itch. 933B.
- Centella asiatica* (L.) Urban.  
ST first instar larvae of Mexican bean beetle and codling moth. 837.
- Cestipoda orbicularis* Lour.  
Used in Sind, India as insecticide. 933B.
- Centrosema pluriar* (Turo.) Benth.  
Bark used as fish poison. 795.
- Century plant, see *Agave americana*.
- Cephaelis acuminata*. (Ipecac).  
Acetone ext. of root NT mosquito larvae. 645.
- Cephaelis ipecacuanha* (Brot.) A. Rich. (*Psychotria speciosa* Stokes).  
Exts. applied as sprays against adult mosquitoes much inferior to standard mosquitocides. 933B.
- Cephalanthus occidentalis* L. (Buttonbush).  
Exts. were not repellent to Japanese beetle. 933B.
- Ceratonia siliqua* L. (Algarroba; carob bean).  
Used in Venezuela for killing insects. 933B.
- Ceratopoda integribracteata* Engl.  
Decoction used in West Africa as insecticide. 933.
- Cereus* sp. (Cactus).  
Leaves, made into paste and spread over surface of water, kill larvae of mosquitoes by asphyxiation. 933.
- Cestrum levigatum* Schlecht.  
Used as fish poison. 795.
- Cetraria islandica*. (Iceland moss).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Chamaecyparis thoides* (L.) B. S. P. (White cedar).  
Exts. were not repellent to Japanese beetle. 933B.
- Chamomile, Hungarian, see *Matricaria chamomilla*.
- Chamomilla nobilis*, see *Anthemis nobilis*.
- Chamomilla officinalis*, see *Matricaria chamomilla*.
- Chamomilla vulgaris*, see *Matricaria chamomilla*.
- Chara fetida*.  
T mosquito larvae. 933B.
- Chara fragilis* Desv.  
T mosquito larvae; alich. exts. and water suspensions NT caterpillars. 933B.
- Charcoal (kind not stated).  
NT as dust against roaches and NT as fumigant against clothes moths. 933, 1268.
- Chaste-tree, lilac, see *Vitex agnuscastus*.
- Chaste tree, negundo, see *Vitex negundo*.
- Chaulmoogra, see *Gynocarpus odorata*.
- Chelidonium majus* L. (Celandine; swallowwort).  
Decoction 4% T *Malacosoma neustria* and 44% T *Vanessa urticae*; acetone ext. NT mosquito larvae. 645, 933.
- Chelone glabra* L. (Turtlehead).  
Exts. from dried leaves were more or less repellent to Japanese beetle. 933B.
- Chenopodium ambrosioides* L. (*C. anthelminticum* L.; *C. ambrosioides anthelminticum* A. Gray; American wormseed).  
Water ext. from dried leaves and seeds NT bees; decoction, mixed with soap, from leaves, stems, and seeds NT potato aphids and nasturtium aphids; powder used as dust NT tent caterpillars, but T roaches, and used as stomach poison, NT grasshoppers; oil 99-80% T *Lucilia cuprina* larvae, 35% T mosquito larvae at 11 p.p.m., and 90% T at 25 p.p.m. 643A, 840, 933.
- Cherimoya, see *Annona cherimola*.
- Cherry, cultivated, see *Prunus* sp.
- Cherry, cut-leaved ground, see *Physalis angulata*.
- Cherry, Peruvian ground, see *Nioandra physalodes*.
- Cherry, wild virgin ground, see *Prunus serotina*.
- Chervil, European, see *Anthriscus vulgaris*.
- Chestnut, American, see *Castanea dentata*.
- Chestnut, horse, see *Castanea hippocastanum*.
- Chickweed, common, see *Stellaria media*.
- Chicory, see *Cichorium intybus*.
- Chillies, see *Capcium frutescens*.
- Chiloeen or Chiloeagas.  
NT winged forms of fruit maggots. 933.
- Chimaphila umbellata* L. Nutt. (Common pipestem).  
Acetone and water ext. of whole plant NT mosquito larvae. 643A.
- Chinaberry, see *Melia azedarach*.
- Chionanthus virginicus* L. (White fringetree).  
Acetone ext. bark of root 65% T mosquito larvae. 643A.
- Chips of wood, see "Sopilete."
- Chiretta, see *Swerdia chirayita*.
- Chive, see *Allium schoenoprasum*.
- Chlorophora tinctoria* (L.) Gaud. (Fustic).  
Commercial ext. was effective repellent against Japanese beetle. 933B.
- Chondrus crispus* (L.) Stack. (Carrageen; Irishmoss; pigwack; pearl moss; killean; salt rock moss).  
T as mothproofing agent. 786P, 1175.
- Chroosperma muscotoxicum*, see *Amianthium muscotoxicum*.
- Chrysanthemum achilleae* L. (*Pyrethrum achilleae* DC.).  
Opened flower heads T flies, fleas, and ants. 933.
- Chrysanthemum balsamita*, see *C. majus*.
- Chrysanthemum caucasicum* (Willd.) Pers.  
Insect powder is made from this species, but more reliable authors deny this statement. 933.
- Chrysanthemum chamomilla*, see *Matricaria chamomilla*.
- Chrysanthemum cinerariifolium* (Trev.) Vis. (*Pyrethrum cinerariaefolium* Trev.; Dalmatian insect flowers).  
When reduced to powder, all parts of plant are active; powders, used as dusts, T silkworms, flies, potato-beetle, larvae, aphids, grasshoppers, and tent caterpillars; no practical value against bedbugs and cockroaches. 933, 1161.
- Chrysanthemum coccineum* Willd. (*C. roseum* Adam; *Pyrethrum carneum* Bieb.; Persian insect flowers).  
T many species of insects.
- Chrysanthemum coronarium* L. (Crown daisy).  
Flowers NT flies. 933.
- Chrysanthemum corymbosum* L. (*Pyrethrum dorymbosum* Scop.).  
NT flies, fleas, and ants. 933.
- Chrysanthemum*, cultivated, see *Chrysanthemum* spp.
- Chrysanthemum frutescens* L. (Marguerite).  
Flowers can be substituted for genuine insect powder. 933.
- Chrysanthemum indicum* L. (Mother chrysanthemum).  
Open and closed flower heads and leaves NT insects tested. 933.
- Chrysanthemum leucanthemum* L. (*Leucanthemum vulgare* Lam.; oxeye daisy).  
NT flies, cotton caterpillars, silkworms, webworms, etc. 933.
- Chrysanthemum majus*. (*C. balsamita* L.; costmary).  
Acetone ext. of leaves and stems T mosquito larvae. 645.
- Chrysanthemum marshallii* Aschers. (*Pyrethrum roseum* Bieb.; caucasian insect flowers).  
Produces genuine insect powder. 933.
- Chrysanthemum*, mother, see *Chrysanthemum indicum*.
- Chrysanthemum myconis* L.  
T dog fleas. 933.
- Chrysanthemum parthenium* (L.) Pers. (*Matricaria parthenium* L.; *Pyrethrum parthenium* J. E. Smith; feverfew).  
Not very effective against insects. 933.
- Chrysanthemum roseum*, see *Chrysanthemum coccineum*.
- Chrysanthemum sogetum* L. (*Pyrethrum sogetum* Moench; corn-marigold).  
As effective as Persian insect powder, particularly when used as fumigant. 933.
- Chrysanthemum* sp. (*Asclepium*).  
Acetone ext. of leaves, stems, and flowers T mosquito larvae. 645.
- Chrysanthemum* spp. (Cultivated chrysanthemum).  
Exts. were not repellent to Japanese beetle. 933B.
- Chrysopsis mariana* (L.) Nutt. (Golden aster).  
Exts. from plants not repellent to Japanese beetle. 933B.
- Charimulla.  
Plant was found in Coorg, India; a 7.5% alich. ext.

of stems 100% T adult grasshoppers and a 5% ext. 80% T one species of caterpillars, and 100% T to another species; powdered stems dusted upon beetles 100% T. 933B.

*Chydanthus excoleus*, see *Barringtonia excolea*.

*Cichorium intybus* L. (Chicory).

Exts. were not repellent to Japanese beetle. 933B.

*Cleota maculata* L. (Spotted water hemlock).

Exts. were not repellent to Japanese beetle. 933B.

*Cimicifuga racemosa* L. (Fetid bugbane).

Root said to be poisonous; used in Siberia to drive away bugs and fleas; used in India as insecticide or repellent. 933B.

*Cimicifuga racemosa* (L.) Nutt. (*C. serpentaria* Pursh; cohosh bugbane).

Water ext. of root 25% T mosquito larvae; powdered roots, used as dust, NT crickets; exts. were not repellent to Japanese beetle. 643A, 933, 933B.

*Cinchona officinalis* L. (Cinchona; Peruvian bark).

Powdered bark MT fly larvae but not entirely efficient; caterpillars fed on plants dipped in 300 cc. of water containing 5 gm. of quinine were not appreciably affected; cinchonine used as dust 36% T codling moth larvae, while quinine alkaloid was only 15.5% T; exts. of dried cinchona bark were not repellent to Japanese beetle; cinchona alkaloids used as mothproofing agents. 933B.

*Cinchona pubescens* Vahl.

Powdered bark MT fly larvae but not entirely efficient; used as mothproofing agent. 933B.

*Cinchona succirubra* Pavon.

Powdered bark gave fairly high percentage of mortality against fly larvae, but not entirely efficient. 933.

*Cinnamomum camphora*. (Camphor tree).

Oil of camphor 99-80% T *Lucilia cuprina* larvae; wood T clothes moths. 849, 1077, 1137F, 1175, 1176.

*Cinnamomum cassia*. (Cassia or Chinese cinnamon).

Oil of cassia 10-0% T *Lucilia cuprina* larvae. 849.

*Cinnamomum zeylanicum* Nees. (Cinnamon).

Oil considered one of best repellents against screw-worm; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquito-dide; acetone ext. of bark T mosquito larvae. 645, 933B.

Cinnamon, oil of, see *Cinnamomum zeylanicum*.

Cinnamon-root, see *Insula conyza*.

Cinnamon, wild, see *Canella winterana*.

Cinquefoil, silver, see *Potentilla argentea*.

*Cissampelos pareira* L.

Used as fish poison. 795.

Citron, see *Citrus medica*.

Citronella, oil of, see *Cymbopogon nardus*.

*Citrullus colocynthis* (L.) Schrad. (*Cucumis colocynthis* L.; *Colocynthis vulgaris* Schrad.; colocynth; bitter apple, gourd, and cucumber).

T as mothproofing agent; acetone ext. of fruit NT mosquito larvae; pulp NT bedbugs, cockroaches, clothes moths, chicken lice, and dog fleas. 42, 188F, 645, 1024, 1175, 1176, 1268.

*Citrullus vulgaris*. (Watermelon).

Acetone ext. of seeds T mosquito larvae. 645.

*Citrus aurantifolia*. (Lime).

Oil 39-20% T *Lucilia cuprina* larvae. 849.

*Citrus bergamia*. (Bergamot orange).

Oil 59-40% T *Lucilia cuprina* larvae and T codling moth. 849, 1423A.

*Citrus limon*. (Lemon).

Oil 39-20% T *Lucilia cuprina* larvae. 849.

*Citrus medica* L. (Citron).

Fruit was put among clothes to keep away moths. 933B.

*Citrus reticulata* HV. (Tangerine orange).

Oil 59-40% T *Lucilia cuprina* larvae. 849.

*Citrus sinensis* (L.) Osbeck. (Orange).

Orange poultice recommended in some skin affections, such as psoriasis; oil strongly attractive to oriental cockroach. 933B.

*Citrus* sp. (Alep oil of petit-grain).

Used in Haiti as insecticide against mosquitoes; oil of petit-grain 19-0% T *Lucilia cuprina* larvae. 849, 933B.

*Cladraetis (mosackia) amurensis* Benth. (*Cladraetis*).

Acetone ext. of root and stem 5% T mosquito larvae. 643A.

*Clausena anisata* Hook. f. (Samanobere).

In Gold Coast, Africa, plant was hung in houses to keep away mosquitoes. 933B.

*Claviceps purpurea* (Fries) Tulane.

Water ext. T aphids, psylla, thrips, also other sucking insects, and those unprotected by hairs. 933.

*Cleytonia virginica* L. (Virginia springbeauty).

Exts. from entire plant were more or less repellent to Japanese beetle. 933B.

*Cleistanthus collinus* (Roxb.) Benth. and Hook.

Used for fish poisoning; inner bark placed on sores of sheep and goats is efficacious in healing them and in destroying maggots. 933.

*Cleistanthus* spp.

Green vegetable matter decaying in water sometimes pollutes the water and thus helps to control mosquitoes; one of best genera so far found in India is *Cleistanthus*, poisonous to fish. 933B.

*Clematis vitalba* L. (Honduras fish poison).

Repellent to weevils in France; efficient against silkworms. 933, 933B.

*Cleome rosea* Vahl.

Used in Brazil as fish poison. 795.

*Cleome spinosa* L.

Used as fish poison. 795.

*Clerodendron laurum* Gaertn.

20% Water suspension of powdered stems 80% T nymphs of mango hoppers; deterrent to honeybees. 933B.

*Clerodendrum infortunatum* Gaertn. (*Volcanaria infortunata* Roxb.).

In India natives believed that the presence of this plant cured scabies. 933B.

*Clerodendrum phlomidis* L. f.

Bitter juice of leaves of white-flowered variety much used in Sind, India as remedy for itch. 933B.

*Clitidium heterotrichum* Blake.

Used in Peru and Bolivia as fish poison. 795.

*Clitidium polygynum* Blake.

Used as fish poison. 795.

*Clitidium strigillosum* Blake.

Leaves and fruit used as fish poison. 795.

*Clitidium surinamense* L.

Used as fish poison; NT silkworms. 795, 933.

*Clitidium sylvestre* (Aubl.) Baill.

Leaves and fruit used as fish poison. 795.

*Clitoria amsonum* Hart.

Branches used as fish poison. 795.

*Clitoria arborea* Ait.

Leaves and roots used as fish poison. 795.

*Clitoria guianensis* Benth.

Used as fish poison. 795.

*Clitoria macrophylla* Wall.

Exts. of roots ST bean aphid. 933B.

Clover, see *Medicago altissima*.

Clover, hop, see *Trifolium agrarium*.

Clover, rabbitfoot, see *Trifolium arvense*.

Clover, white sweet, see *Medicago alba*.

Clover, yellow sweet, see *Medicago officinalis*.

Clove tree, see *Syzygium aromaticum*.

Club, golden, see *Orontium aquileum*.

*Cnicus benedictus*. (Blessed thistle).

Water ext. of whole plant 35% T mosquito larvae. 643A.

Coca, see *Erythroxylum coca*.

*Cocculus indicus*, see *Anamirta cocculus*.

*Cochlospermum religiosum*. (*C. gossypium* (L.) DC.).

Addition of 0.2% karaya gum considerably increased effectiveness of all nicotine sprays used against *Frankliniella fusca*, *Macrosiphum ambrosiae*, and bean aphid. 933B.

*Cocillana*, see *Gaearea rubei*.

Cocklebur, see *Xanthium strumarium*.

Cocoa, see *Theobroma cacao*.

*Cocos nucifera* L. (Coconut).

Black oil extd. from shell used for itch and other parasitic affections; oil retarded attacks of weevils as long as grain remained moist, but grain was attacked after a few months; good control of cranberry fruitworm was obtained with dertic and cube sprays containing coconut oil soap. 933B.

**Coffea arabica L. (Coffee).**

Caffeine had some mothproofing value but insufficient for practical use; NT houseflies, caterpillars, and, used as dust, 15.5% T codling moth larvae; a 1-100 dilution 100% T bees in 24 hrs., a 1-200 dilution within 48 hrs., and a 1-400 dilution 34% T within 48 hrs. 933B.

**Coffea liberica Hiern.**

Caffeine had some mothproofing value but insufficient for practical use; NT houseflies, caterpillars, and, used as dust, 15.5% T codling moth. 933B.

**Coffee, see Coffea arabica.****Coffee-ash.**

T against die-back disease. 1503.

**Coffea senna, see Cassia occidentalis.****Coffee tree, Kentucky, see Gymnocladus dioica.****Cobosh, blue, see Caeleophyllum thalictroides.****Cochium autumnale L. (Meadow saffron).**

Decoction from seeds or roots with vinegar or alc. recommended against aphids on rose bushes; exts. were not repellent to Japanese beetle; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide; tincture of colchicum mixed with honey NT ants. 933B.

**Cellinseala canadensis L. (Citronella horsebalm).**

Exts. were not repellent to Japanese beetle. 933B.

**Colocynthis, see Citrullus colocynthis.****Colocynthis vulgaris, see Citrullus colocynthis.****Coltsfoot, see Tussilago farfara.****Comandra umbellata (L.) Nutt. (Comandra).**

Exts. from entire plant were repellent to Japanese beetle. 933B.

**Comfrey, common, see Symphytum officinale.****Commiphora myrrha and species. (Myrrh gum).**

Acetone ext. of gum NT mosquito larvae; myrrhine acid T as mothproofing agent. 645, 936P, 1175.

**Commiphora sp.**

Used as insecticide in Sind, India. 933B.

**Compass plant, see Silphium laciniatum.****Comptonia peregrina, see Myrica peregrina.****Conami elibodium.**

Exts. of roots, stems, leaves, flowers, and fruit of this fish poison plant from British Guiana were NT bean aphid. 933B.

**Coneflower, hedgehog-, see Echinacea pallida.****Conium maculatum L. (Poison-hemlock).**

Infusion of flowers, leaves, and stems T various insects; powdered fruit NT fly larvae. 933.

**Convallaria majalis L. (Lily-of-the-valley).**

Exts. were not repellent to Japanese beetle; acetone ext. of leaves NT mosquito larvae. 645, 933B.

**Conyza squarrosa, see Inula conyza.****Copaifers langsdorffii Desf. (Copaiva langsdorffii (Desf.) O. Kze. (copaiba)).**

Oil 10-0% T *Lucilia cuprina* larvae; oil exhibited good repellent action on screwworms for 1 or 2 days only. 849, 933B.

**Copaifers officinalis L. (Copaiva officinalis (L.) Jacq.).**

African copaiba oil (66%) was powerful attractant for male fruitflies in South Africa. 933B.

**Copernicia cerifera Mart. (Carnauba palm).**

Wax used with an odorous insecticidal material in impregnating wood to form an artificial cedar board or "moth wood." 933B.

**Coptis groenlandica (Oeder) Fern. (Common gold thread).**

Acetone exts. of whole plant 55% T mosquito larvae. 933B.

**Coptis trifolia. (Alaska gold thread).**

Acetone ext. of whole plant T mosquito larvae. 643A.

**Cordia myxa L.**

Powdered bark used as external application in prurigo by Santals in India. 933B.

**Coreopsis grandiflora Hogg. (Big coreopsis).**

Exts. from whole plant were repellent to Japanese beetle. 933B.

**Coriander, oil of, see Coriandrum sativum.****Coriandrum sativum L. (Morroco coriander).**

Acetone ext. of seeds T mosquito larvae; oil 30-20% T *Lucilia cuprina* larvae. 645, 849.

**Coriaria ruscifolia L.**

Used in Chile as fish poison. 795.

**Cork tree, Amur, see Phellodendron amurense.****Corn, Indian, see Zea mays.****Corn oil, see Zea sp.****Corn, squirrel, see Diamesa canadensis.****Corncockle, see Agrostemma githago.****Cornus florida L. (Flowering dogwood).**

Acetone ext. of leaves 50% T mosquito larvae and acetone ext. of bark NT. 643A, 645.

**Coscinium blumeorum Miq. (Tuba kupa).**

5% Water ext. of bark and stems of this Malayan fish poison plant NT larvae of *Parasus herbifera*. 933B.

**Cotnamy, see Chrysanthemum majus.****Cotinus, see Sansevieria lappa.****Cotton plants, see Gossypium spp.****Cotton, sea-island, see Gossypium barbadense.****Coumaros odorata, see Dipteryx odorata.****Coullia tridentata, see Larrea divaricata.****Cowwheat, see Melampyrum lineare.****Crabwood, see Carapa procera.****Cracca, see Tephrosia.****Creeper, elephant, see Argyreia speciosa.****Creeper, trumpet, see Campsis radicans.****Creeper, Virginia, see Parthenocissus quinquefolia.****Crocosotubush, see Larrea divaricata.****Cress, Afghan bitter, see Erysimum perfoliatum.****Cress, bitter winter, see Barbarea vulgaris.****Cress, mouse-ear, see Arabidopsis thaliana.****Crowia filifolia Vahl.**

In India bark was employed externally to remove the irritation in cow itch. 933B.

**Croesus sativus L. (Crousa).**

Exts. from plants were not repellent to Japanese beetle. 933B.

**Crotalaria angulosa, see Crotalaria verrucosa.****Crotalaria paniculata Willd.**

Used in India as fish poison and as insecticide. 933B.

**Crotalaria verrucosa L. (C. angulosa Lam.).**

Juice of leaves and tender stalks used in cases of scabies. 933B.

**Crotalaria spp.**

In tests on the effect of poisonous plants on cane grubs in Queensland this genus was the most promising. 933B.

**Croton capitatus Michx.**

NT Cotton caterpillars. 933.

**Croton eluteria (L.) Swartz. (Cascarilla).**

Used as fumigant in Bermuda, is mosquito repellent; acetone ext. of bark NT mosquito larvae. 645, 933.

**Croton flavens L.**

Used as insecticide in Venezuela, but not very effective on roaches, flies, or gnats. 933.

**Croton glandulosus L.**

Leaves and blossoms NT cotton caterpillars. 933.

**Croton monanthogynus Michx.**

Leaves and blossoms NT cotton caterpillars. 933.

**Croton oblongifolius Roxb.**

Seeds used as insecticide in India. 933B.

**Croton, oil of, see Croton tiglium.****Croton texensis (Klotzsch) Muell. Arg. (Crotonweed).**

NT cotton caterpillars. 933.

**Croton tiglium.**

Oil of croton 10-0% T *Lucilia cuprina* larvae. 849.

**Croton spp.**

Croton used in China as insecticide; T aphids; croton resin more toxic to goldfish than rotenone. 643A, 933B.

**Crotonweed, see Croton texensis.****Crow poison, see Amiantanthum muscatorium.****Cube, see Lonicera arvensis.****Gubeb, see Piper cubeba.****Cucuracha, see Haplophyten cimicidum.****Cucumber, see Cucumis sativus.****Cucumber root, see Medicago virginiana.****Cucumis colocynthis, see Citrullus colocynthis.****Cucumis mele. (Muskmelon).**

Acetone ext. of seeds T mosquito larvae. 645.

**Cucumis sativus L. (Cucumber).**

Juice was said to banish wood lice and kill cockroaches; acetone ext. of seeds T mosquito larvae. 645, 933B.

**Cucurbita fastidiosa H. B. K. (Missouri gourd).**

Acetone ext. of roots, NT mosquito larvae. 643A, 933B.

**Cucurbita maxima Duchesne. (Turks' turban gourd).**

Acetone ext. of seeds T mosquito larvae. 645.

- Cucurbita moschata*. (Striped cushaw pumpkin).  
Acetone ext. of seeds T mosquito larvae. 645.  
*Cucurbita pepo* L. (Pumpkin).  
Acetone ext. of seed 100% T mosquito larvae. 643A.  
*Cucurbita pepo* L. var. *ovifera* Bailey. (Gourd).  
Acetone ext. of seeds T mosquito larvae. 645.  
Culvers root, see *Veronicastrum virginicum*.  
*Cuminum* sp. (*C. odoratum* Balieb.; cumin).  
MT as repellent to oriental cockroach; oil of cumin exhibited good repellency against screwworms for 1 or 2 days only. 933B.  
*Cuminum* sp. (Also oil of cummin Eng.).  
Acetone ext. of seeds T mosquito larvae; oil T *Lucilia cuprina* larvae. 645, 849.  
*Cuscuta origanoides* (L.) Britton. (Stonemint; American dittany herb).  
Exts. were not repellent to Japanese beetle; acetone ext. of entire plant NT mosquito larvae. 645, 933B.  
*Cuscuta pulgoides*, see *Hedeoma pulegioides*.  
*Cupania* sp. (Moroballi; muraballi).  
Exts. of wood and bark of this fish poison plant from British Guiana were NT bean aphid. 933B.  
*Cupressus sempervirens* L. (Cypress).  
Oil (50 p.p.m.) 90% T mosquito larvae. 643A.  
*Curcuma aromatica* Salisb.  
Used in India externally for scabies and smallpox. 933B.  
*Curcuma longa* L. (Turmeric).  
Pure turmeric useful for scabies and other skin diseases. 933B.  
*Curcuma zedoaria* Rose. (Zedoary).  
Exts. were not repellent to Japanese beetle. 933B.  
*Cuscuta reflexa* Roxb. (*C. grandiflora* Wall.).  
Used in India externally against itch. 933B.  
*Cuscuta trifoliata* (Willd.) Engler.  
Bark and twigs used as fish poison. 795.  
Custard-apple, see *Annona reticulata*.  
Cutch, see *Acaasia catechu*.  
*Cycas circinalis* L. (Sago palm).  
Male bracts of this gymnospermous tree used in southern India as narcotic and were called "madana-kama-pu" or "flowers of Kama," which were said to contain a property that intoxicates insects that rest upon them. 933B.  
*Cyclamen elegans*.  
Saponin, toxic element from either fresh or the dry bulbs, HT fruit tree parasites such as various *Paratetranychus*. 1118.  
*Cydonia* sp. (Quince).  
Acetone ext. of seeds T mosquito larvae. 645.  
*Cymbopogon nardus*. (Oil of citronella).  
Oil 79-80% T *Lucilia cuprina* larvae; shows little or no toxicity to red scale as fumigant. 268, 849.  
*Cynanohum arvensianum* Wight.  
Used as insecticide in India. 933B.  
*Cynanohum macrocarpum* Carr.  
Blooms contain a viscous substance in which all visiting insects are unable to extricate themselves. 933B.  
*Cynanohum* sp.  
Gave low mortality to several species of insects. 837.  
*Cynodon dactylon* (L.) Pers. (*Cepioides dactylon* Kuntze; Bermuda grass).  
In India fresh juice was applied for scabies. 933B.  
*Cynoglossum officinale* L. (Common houndstongue).  
Exts. were not repellent to Japanese beetle. 933B.  
*Cynometra ramiflora* L. (*C. bijuga* Spanag.).  
Oil from seeds used externally for scabies. 933B.  
*Cynthis*, see *Krigia biflora*.  
Cypress, oil of, see *Cupressus sempervirens*.  
*Cypripedium* sp. (Lady slipper).  
Water ext. of root 30% T mosquito larvae. 643A.  
*Grylla racemiflora* L. (Southern leatherwood).  
Honeybees poisoned by this plant, but only brood affected. Larvae died usually when nearly matured, often causing colonies to be weakened. 933B.  
*Cytisus laburnum*, see *Laburnum anagyroides*.  
*Cytisus scoparius* (L.) Link. (Sooth broom).  
Infusion made from fresh crushed tops T larvae of cabbage butterflies, also effective for removing *Cochylis* larvae from vines and various caterpillars from apple trees; NT silkworms. 933.  
*Datura*.  
Powdered stems, mixed with grain in closed reapi-
- tacles, did not protect grain from weevils; plant said to have insecticidal properties. 933B.  
Daffodil, common, see *Narcissus pseudo-narcissus*.  
Daisy, crown, see *Chrysanthemum coronarium*.  
Daisy, oxeye, see *Chrysanthemum leucanthemum*.  
*Dalea vulgaris* var. *barbata* Oert. (*Parosela barbata* (Oert.) Rydb.).  
Two constituents were isolated from this Florida plant, but they were NT to insects. 933B.  
Dandelion, see *Taraxacum palustre* var. *officinale*.  
*Daphne mezereum* L. (Spurge laurel).  
Plant is well known in medicine; frequently dead beetles, flies, and wasps were found beneath it; NT caterpillars. 933B.  
*Dasytoma flavo*, see *Aureolaria virginica*.  
*Datura fastuosa* L.  
5% Aloh. ext. of leaves 100% T *Prodenia litura*, *Euproctia fraterna*, and *Paricalia vicini*, and 85% T *Crocidoloma binotalis*; 5% ext. of fruits 100% T first species, 95% second and third, and 55% of fourth; NT adult mosquitoes. 933B.  
*Datura metel* L. (Angel-trumpet).  
Used in Hind as insecticide; commonly pounded and used to smear floors of houses to kill lice and other vermin, especially "jiggers," in Gold Coast, Africa. 933B.  
*Datura stramonium* L. (Jimsonweed; thornapple).  
Leaves, used as fumigant, T bedbugs, roaches, etc.; NT cotton caterpillars, potato beetles, rose beetles, and larvae of *Vanessa miiberti*. 933.  
*Datura* sp.  
Ext. T as mothproofing agent. 517P, 1175.  
*Daucus carota* L. (Wild carrot).  
Exts. were not repellent to Japanese beetle; acetone ext. of seeds NT mosquito larvae. 645, 933B.  
Deer's tongue, see *Erythronium americanum*.  
Deguelia, see *Derris*.  
Dela, see *Capparis aphylla*.  
*Delphinium ajacis* L. (Rocket larkspur).  
Acetone ext. of seeds T mosquito larvae; insecticidal value of seeds is due to oil present in them, while alkaloid in them plays insignificant part when tested against bedbugs. 645, 933.  
*Delphinium bicolor* Nutt. (Low larkspur).  
NT webworms, grasshoppers, potato beetle larvae, and silkworms; ext. of blossoms ST silkworms. 933.  
*Delphinium brownii*.  
Less toxic than nicotine sulfate to aphids, but as stomach poison and repellent, it is more effective to other insects. 1144.  
*Delphinium bruceanum* Royle. (Musk larkspur).  
Juice used to destroy ticks on animals. 933.  
*Delphinium coeruleum* Jacquem.  
Roots T maggots. 933.  
*Delphinium consolida* L. (Field larkspur).  
Tincture T lice on human heads; effective poison on insects. 933.  
*Delphinium delavayi* Fr. (Unidentified species of *Dendrobium*).  
HT Mexican bean beetle larvae, to other insects little or no toxicity; *Dendrobium* T houseflies, ST codling moth, and NT other insects. 837.  
*Delphinium elatum* L.  
Used to destroy maggots in wounds. 933B.  
*Delphinium staphisagria* L. (Stavesacre larkspur; louse-wort).  
Acetone ext. of seeds T mosquito larvae; T lice and itch-mite. 645, 933.  
*Delphinium vestitum* Wall.  
Used to destroy maggots in wounds. 933B.  
*Delphinium salic* Aitch. and Hemsl.  
In India ashes of this species were useful for itch. 933B.  
*Delphinium* sp. (Larkspur).  
T shortnoed ox louse; ext. of ground seed T fly larvae. 933.  
*Dennstaedtia punctilobula* (Michx.) Moore. (Hay-scented fern).  
Acetone ext. of rhizome 10% T mosquito larvae. 643A.  
*Derjania dentata* (Vell.) Radlk.  
Stems and leaves used as fish poison. 795.  
*Derris amareuca*, see *Lonchocarpus nagrensis*.



- Derris benthami* Thw.  
Used as fish poison. 933B.
- Derris chinensis* Benth.  
Roots reported to contain rotenone. 759.
- Derris ensifolia* Benth.  
Roots reported to contain rotenone. 759.
- Derris dalbergoides* Baker.  
Seeds reported to contain rotenone. 759.
- Derris elliptica* (Wall.) Benth. (East Indian fish poison).  
Powder, used as dust, T aphids and silkworms; alch. and benzene exts. when strong or used with soap or kerosene emulsion, T many species of aphids; alch. ext., used with soap, T half-grown sawfly larvae, but NT small webworms and larvae and adults of potato beetle; stems and seeds reported to contain rotenone. 759, 933.
- Derris ferruginea* Benth.  
Roots reported to contain rotenone. 759.
- Derris grandifolia* D. Smith.  
Aerial portions reported to contain rotenone. 759.
- Derris guianensis* Benth.  
Used as fish poison. 795.
- Derris heptaphylla* (L.) Merr.  
This species had insecticidal value. 933B.
- Derris koolgibberah* F. M. Bailey.  
Alch. exts. were generally efficient, but this species was unsatisfactory for insecticidal purposes. 933B.
- Derris malaccensis* (Benth.) Prain.  
Roots reported to contain rotenone. 759.
- Derris negrensis* Benth.  
Stem and leaves used as fish poison. 795.
- Derris oligosperma* K. Schum.  
Alch. exts. were seldom efficient, and this species was unsatisfactory for insecticidal purposes. 933B.
- Derris philippinensis* Merr.  
Powdered roots T aphids and mosquito larvae. 933B.
- Derris polyantha* Perkins.  
Roots reported to contain rotenone. 759.
- Derris robusta* Benth.  
Alch. exts. were seldom efficient, and this species was unsatisfactory for insecticidal purposes. 933B.
- Derris scandens* Benth.  
Roots reported to contain rotenone. 759.
- Derris thyrsiflora* Benth.  
ST lepidopterous larvae. 933B.
- Derris trifoliata* Lour. (*D. uliginosa* (Roxb.) Benth.; Eastern fish poison).  
Stems, petioles, seeds, and roots reported to contain rotenone; T mosquito larvae. 759, 933, 971.
- Derris* sp.  
Exhausted roots, powdered, T black scale; emulsion T Mediterranean fruit fly; mothproofing agent; commonly used insecticide. 115, 263, 264, 849, 926P, 963, 1176, 1449P.
- Desmanthus virgatus* (L.) Willd.  
Used in Peru as fish poison. 795.
- Desmodium laburnifolium*, see *Meibomia laburnifolia*.
- Desmodium triflorum* (L.) DC. (*Meibomia triflora* (L.) Kuntze).  
Paste made from bruised leaves with kamala was applied to indolent sores and as remedy for itch. 933B.
- Dicentra canadensis* (Goldie) Walp. (*Bukuhulla canadensis* (Goldie) Millsp.; squirrelcorn).  
Ext. were not repellent to Japanese beetle. 933B.
- Dichapetalum ruhlandii* Engl.  
Bush was poisonous to cattle and goats in Africa; sprays containing ext. of leaves NT citrus aphids. 933B.
- Dichapetalum toxicarium* (G. Don) Engl. (West African ratbane).  
In Sierra Leone used to destroy head lice. 933B.
- Dichrophyllum marginatum*, see *Euphorbia marginata*.
- Dihydrocorys edulis* Wight and Arn. (*Mimosa chinensis* L.).  
In India leaves mixed with corn given to horses to free them from bots and worms. 933B.
- Digitalis ambigua* Murr. (*D. grandiflora* Lam.).  
Leaves T aphids and flea beetles; used as substitute for nicotine in France. 933B.
- Digitalis purpurea* L. (Foxglove).  
Decoction T aphids on nut trees; tincture mixed with honey NT ants; exts. were not repellent to Japanese beetle; commercially prepared exts. NT bean aphid; spray containing an ext. NT larvae of vine moths in France. 933B.
- Dill, see *Anethum graveolens*.
- Dillenia indica* L.  
5% Alch. ext. of leaves 80% T larvae of *Prodenia litura* and *Crocidolomia binotalis*, and 100% T *Euproctus fraterna* and *Epilachna* sp.; 5% ext. of bark of root and stem 100% T *E. fraterna*; 5% ext. of leaves 60-70% T *Lecanium viride*. 933B.
- Dioscorea cylindrica* Burm. (*D. hispida* Dennst.; namj).  
Roots used for killing maggots infesting wounds of animals. 933B.
- Dioscorea piscetorum* Prain and Burkill. (Tuba cherok; sakut).  
5% Water ext. of roots killed 4/5 of larvae of moth *Parasa herbifera*, but a 0.5% ext. of derris roots killed all larvae in less time. 933B.
- Dioscorea villosa*. (Wild yam).  
Acetone and water ext. of root NT mosquito larvae. 643A.
- Dioscorea* sp.  
Recommended as repellent against fleas on man. 933B.
- Diospyros malabarica* (Desr.) Kostel. (*D. embryopteris* Pers.; *Embryopteris glutinifera* Roxb.).  
Pulp surrounding seeds used by Europeans in binding books, as it was obnoxious to insects. 933B.
- Diospyros maloccai* A. DC.  
Wood used as insecticide. 933.
- Diospyros montana* Roxb.  
5% Alch. ext. of leaves 40% T adult grasshoppers and 100% T beetle grubs; 3% ext. of leaves 70% T *Achaes jenata* and 80% T *Diacrisia obliqua*. 933B.
- Diospyros virginiana* L. (Common persimmon).  
Ext. were not repellent to Japanese beetle. 933B.
- Diospyros wallichii* King and Gamble. (Tuba-buah-daun).  
5% Water ext. of leaves of this Malayan fish poison tree killed only one-fifth of larvae of *Parasa herbifera* treated, but a similar ext. of roots killed none. 933B.
- Diospyros* sp.  
Wood used as insecticide. 933B.
- Dipterocarpus turbinatus* Gaertn. f. (*D. laevis* Ham.).  
Garjin oil, obtained from this plant, used in preserving bamboo wickerwork from insect attack. 933B.
- Dipteryx odorata* Willd. (*Coumarouna odorata* Aubl.; tonka bean).  
When chemically pure and used in relatively large quantities, T grain weavils; alch. soln. used for mothproofing purposes. 933B.
- Dittany, American, see *Canula origanoides*.
- Divi-divi, see *Caesalpinia coriaria*.
- Dodhak, see *Euphorbia helioscopia*.
- Dogbane, see *Apocynum cannabinum*.
- Dogwood, flowering, see *Cornus florida*.
- Dolichos pseudopachyrhizus* Harms. (Mhayo).  
In East Africa roots listed as insecticidal; in Kenya roots of this fish poison plant used for removing ticks from sheep and goats; alch. exts. T bean aphid, but results demonstrated roots were not of commercial interest but may be of value for local use. 933B.
- Dracocephalum moldavica* L.  
When applied in 2% emulsion sprays, 90% T red spiders and cotton aphids. 933B.
- Dracunculus vulgaris* Schott. (*Arum dracuncululus* L.).  
Plant bears large flower which exhales odor so fetid and carrion-like that blowflies, carrion flies, and other slaughterhouse frequenters flock to it to deposit their eggs. 933B.
- Dragonroot, see *Arisaema dracontium*.
- Drepanocarpus lusitanus* (L. f.) Mey.  
Ext. of leaves, stems, roots, and fruit NT bean aphid. 933B.
- Drosera rotundifolia* L. (Roundleaf sundew).  
Ext. were not repellent to Japanese beetle. 933B.
- Dryopteris filix-mas* (L.) Schott. (*Aspidium*; *A. filix-mas* (L.) Sw.; male fern).  
Acetone ext. of rhizome 100% T mosquito larvae. 643A.

**Daboisia hopwoodii** F. Muell. (Pituri).

Exts. of this species might yield an insecticide superior to nicotine against some insects; sample of d-nornicotine, obtained from this Australian plant, found to have about same toxicity to bean aphid as l- and dl-nornicotines. 933B.

**Duranta repens** L. ((*D. plumieri* Jacq.).

Berries, when macerated, exude juice lethal to all anopheline and culicine mosquito larvae in dilutions up to 1 in 100. 933B.

**Echballium elaterium** L. A. Richard. (Elaterin).

NT *Timola biselliella* and *Attagenus piceus*. 739, 1176.

**Echinacea**, see *Brauneria* sp.**Echinacea pallida** (Nutt.) Britton. (Hedgehog-cone-flower).

Exts. were not repellent to Japanese beetle. 933B.

**Echinops echinatus** Roxb.

Roots T head lice, also powdered roots applied to wounds in cattle destroy maggots. 933.

**Elmis** spp.

*Thoresa asigora* van Eecke was chief pest of oil palm in Sumatra. Mixture of lead arsenate and boiled linseed oil remained fairly well on leaves for 2½ months; palm oil less effective as adhesive and when mixed with lead arsenate showed no ovicidal effectiveness when applied at low concentrations. 933B.

**Elaterin**, see *Echballium elaterium*.**Elder**, American, see *Sambucus canadensis*.**Elder**, European, see *Sambucus nigra*.**Elecampane**, see *Inula helenium*.**Elitaria cardamomum** Maton. (Cardamom).

Oil T *Lucilia cuprina* larvae. 849.

**Elm**, American, see *Ulmus americana*.**Emboy**.

Very poisonous to fish in Ethiopia; natives used juice against scabies and other dermal afflictions. 933B.

**Embryopteris glutinifera**, see *Diospyros malabarica*.**Entada africana** Guill. and Perr.

Leaves reported to contain rotenone. 759.

**Enterolobium timbouva** Mart.

Branches used as fish poison. 795.

**Ephedra altissima** Desf.

Water ext. of stalk 5% T mosquito larvae. 643A.

**Ephedra procera**.

Acetone and water ext. of stalk NT mosquito larvae. 643A.

**Ephedra** sp.

Acetone and water ext. of stalk NT mosquito larvae. 643A.

**Epigaea repens** L. (Trailing arbutus).

Exts. were not repellent to Japanese beetle. 933B.

**Equisetaceae**.

Ext. used as spray. 284P.

**Erb-a-pique**, see *Neorelma lobata*.**Erechtites hieracifolia** (L.) Raf. (Fireweed).

Exts. were not repellent to Japanese beetle. 933B.

**Eremocarpus setigerus** (Hook.) Benth. (Turkeymullein).

Cold-water exts. T goldfish, as are exts. of derris and cube root; further studies being made by Oregon St. Dept. Agr. to determine whether plant could be developed as source of insecticide. 933B.

**Erigeron annuus** (L.) Pers. (Daisy fleabane).

Exts. were not repellent to Japanese beetle. 933B.

**Erigeron canadensis** L. (Horseweed).

Exts. of fresh leaves and heads were repellent to Japanese beetle. 933B.

**Erigeron pulchellus** Michx. (Poor-robin-plantain).

Exts. were not repellent to Japanese beetle. 933B.

**Erigeron viscosus**, see *Inula viscosa*.**Eriodictyon californicum**. (Yerba santa).

Acetone ext. of stem 35% T mosquito larvae and acetone and water ext. of leaves NT. 643A.

**Eriosema psoraleoides** Don. (*E. cajanoides* Hook. f.).

In tropical West Africa leaves used to rub on dogs as remedy for or preventive of lice, etc. 933B.

**Erysimum perfoliatum** Fisch. and Mey. (Afghan bittercress).

Full-strength exts. from entire plant were repellent to Japanese beetle. 933B.

**Erythrina variegata** Stickm. (*E. indica* Lam.).

In Concan, India juice of young leaves used to kill worms in sores. 933B.

**Erythronium americanum** Ker. (Trout lily; deer's tongue).

Powdered leaves considered one of best repellents against screwworm; exts. were not repellent to Japanese beetle. 933B.

**Erythroxylum coca** Lamarck. (Coca).

Folia coca and hydrochlorax cocaini (10% in flour) NT caterpillars; in Brasil tincture of coca leaves recommended as remedy for lice on poultry; spray solns. of cocaine hydrochloride against bean aphid required a concentration greater than 1 gm. to kill 95%. 933B.

**Eucalyptus globulus** Labill. (Blue gum; Australian fever tree).

Branches T mosquitoes and other insects; oil T gnats and *Lucilia cuprina* larvae; leaves NT clothes moth and red scale. 42, 268, 297P, 849, 933, 1024, 1048P, 1176, 1179, 1268.

**Eucalyptus** spp.

Leaves NT bedbugs, roaches, larvae of clothes moth, chicken lice, and dog fleas; oil strongly repellent to oriental cockroach but of no value as repellent or attractant to screwworm; smoke from burning fresh leaves stunned mosquitoes in 3-5 min. and killed them in 3 hrs. 643A, 933, 933B.

**Eugenia aromaticus**, see *Syzygium aromaticum*.**Eugenia caryophyllata**, see *Syzygium aromaticum*.**Eugenia cumini**, see *Syzygium cumini*.**Eunonymus americanus** L. (Brook euonymus).

Seeds used to destroy vermin in hair. 933.

**Eunonymus atrepurpureus**. (Wahoo).

Acetone and water ext. of bark of root 15% T mosquito larvae. 643A, 933.

**Eunonymus europaeus** L. (Spindle tree; European burning-bush).

Berries when powdered and dusted into hair of sheep, destroyed lice; fruit, made into ointment, used for destruction of Pediculidae; listed as insecticide. 933, 933B.

**Eupatorium capillifolium** (Lam.) Small. (Dogfennel).

Keeps off insects and bugs by strewing on floors of cellars and dairies. 933.

**Eupatorium coelestinum** L.

Exts. of leaves and flowers were not repellent to Japanese beetle. 933B.

**Eupatorium hyssopifolium** L. (Thoroughwort).

Exts. of leaves and flowers were repellent to Japanese beetle. 933B.

**Eupatorium maculatum** L.

Exts. of leaves and flowers were not repellent to Japanese beetle. 933B.

**Eupatorium perfoliatum** L. (Boneset).

Powdered leaves seemed obnoxious to cotton caterpillars, but an infusion from leaves had no effect on them. 643A, 933.

**Eupatorium pubescens** Muhl.

Exts. of leaves and flowers were not repellent to Japanese beetle. 933B.

**Eupatorium** sp. 933.**Euphorbia antiquorum** L.

Juice used to kill maggots in wounds. 933B.

**Euphorbia bicolor** Engelm. and Gray.

Juice of plants used to brand cattle in Texas as screwworms would not infect the fresh scar and spot healed readily. 933B.

**Euphorbia biglandulosa** Desf.

Decoctions recommended as insecticides. 933B.

**Euphorbia corollata** (L.) and Garcke) Boiss.

Branches used as fish poison in Colombia and Venezuela. 795.

**Euphorbia cotinifolia** L.

Branches used to poison fish. 795.

**Euphorbia crotinifolia** Miquel.

T silkworms. 795, 933.

**Euphorbia cyathophora** L.

In Crete plants were collected, crushed, and expressed juice, and then diluted with water to make a 2 to 4% soln. After an hr. liquid used for watering gardens in which melons, cucumbers, etc. were planted, in order to destroy mole crickets. 933B.



- Euphorbia dendroidea* L.  
Decoctions recommended as insecticides. 933B.
- Euphorbia hillebrandii* L. (Dedhak).  
Water mix., macerated juice, and dusts of leaves NT psylla, aphids, and weevil grubs. 933B.
- Euphorbia hyberna* L.  
Exts. of stems and leaves of this fish poison plant from Ireland NT bean aphid. 933B.
- Euphorbia japonica* L. (Spurge).  
Exts. were not repellent to Japanese beetle. 933B.
- Euphorbia kitchiana* Baker.  
Gave low mortality to all insects tested. 937.
- Euphorbia marginata* Pursh. (*Dichrophyllum marginatum* Klotzsch and Garcke; snow-on-the-mountain).  
Decoction ineffective against cotton caterpillars. 933.
- Euphorbia nerifolia* L.  
Used as insecticide in Sind, India; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.
- Euphorbia resinifera* Berg.  
Euphorbium gum NT caterpillars; unstable as emulsifier. 933B.
- Euphorbia thymifolia* L.  
Used as insecticide in India. 933B.
- Euphorbia tirucalli* L.  
Used as fish poison and insecticide in India; 2% ext. of stems 72.5% T citrus aphids. 933B.
- Euphorbia vermiculata* Raf.  
Exts. were not repellent to Japanese beetle. 933B.
- Euphorbia* sp.  
Used as insecticides in form of decoctions. Acetone ext. of leaves and stems NT mosquito larvae. 645, 933.
- Euphrasia officinalis* L. (Eyebright).  
Exts. were not repellent to Japanese beetle. 933B.
- Everlasting, sweet, see *Gaephallium obtusifolium*.
- Excoecaria agallocha* L. (Blinding tree; babooter).  
Malays used sap to kill maggots infesting sores on buffaloes. 933B.
- Excoecium purga*. (*E. jalapa*; *Ipomoea j.* (L.) Pursh; jalap).  
Acetone ext. of root T mosquito larvae; exts. were not repellent to Japanese beetle. 645, 933B.
- Eyebright, see *Euphrasia officinalis*.
- Fagara clava-herculis*, see *Zanthoxylum clava-herculis*.
- Fagopyrum sagittatum* Gilib. (Buckwheat).  
Exts. were not repellent to Japanese beetle. 933B.
- Fagus grandifolia* Ehrh. (American beech).  
Exts. were not repellent to Japanese beetle. 933B.
- Fennel, dog, see *Eupatorium capillifolium*.
- Fennel flower, see *Nigella arvensis*.
- Fennel, French, see *Foeniculum vulgare*.
- Fenugreek, see *Trigonella foenum-graecum*.
- Fern, Christmas, see *Polystichum acrostichoides*.
- Fern, cinnamon, see *Osmunda cinnamomea*.
- Fern, flowering, see *Osmunda regalis*.
- Fern, hay-scented, see *Dennstaedtia punctilobula*.
- Fern, maiden hair, see *Adiantum pedatum*.
- Fern, male, see *Dryopteris filix-mas*.
- Fern, parsley, see *Lomatia silaifolia*.
- Fern, sensitive, see *Oncoclea sensibilis*.
- Fern, sweet, see *Myrica pergrina*.
- Ferula assaetida* L. (Asaetida).  
Strongly repellent to cornfield ant; oil 100% T *Lucilia cuprina* larvae; NT white ant of India, grain weevil, caterpillars of *Prodenia litura*, tarnished plant bug, and screwworms. 849, 933B.
- Ferula fetida* Regel. (Hing).  
Exts. used as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.
- Ferula galbaniflua* Boiss. and Buhse.  
Of 20 gums tested with 4 oils to find stable emulsifiers, galbanum India gum was found to be best. Only 0.5% of it was sufficient to produce a solid emulsion which remained stable for several weeks without the addition of a preservative. 933B.
- Feverfew, see *Chrysanthemum parthenium*.
- Fever tree, Australian, see *Eucalyptus globulus*.
- Ficus religiosa* L. (*F. affinis* Griff.; peepul tree).  
In India an infusion of the bark was given internally for sores. 933B.
- Figwort, see *Scaevola maritima*.
- Fil, balsam, see *Abies balsamea*.
- Fir, Scotch, oil of, see *Fir sylvestris*.
- Fir, vitex, see *Abies veitchii*.
- Fir, white, see *Abies concolor*.
- Firweed, see *Erechtites hieracifolia*.
- Fish berries, see *Asamirita coccinea*.
- Fish poison, Eastern, see *Derris trifoliata*.
- Fish poison, Honduras, see *Clematis vitalba*.
- Fish poison, Jamaica, see *Florida piscipula*.
- Fish poison, Pacific, see *Tephrosia piscatoria*.
- Flag, blue, see *Iris* sp.
- Flag, sweet, see *Acorus calamus*.
- Flax, see *Linum usitatissimum*.
- Fliesbane, daisy, see *Erigeron annuus*.
- Flieswort, see *Pulicaria dysenterica*.
- Fleece vine, see *Polygonum amberti*.
- Flower-of-an-hour, see *Hibiscus trionum*.
- Flugge leucopyrus Willd.  
Leaves used as insecticide. 933.
- Flugge microcarpa* Blume.  
Used as fish poison and insecticide; juice of leaves or leaves made into paste with tobacco were used to destroy worms in sores. 933B.
- Fly agaric, see *Amanita muscaria*.
- Fusculum vulgare* Miller. (French fennel).  
Acetone ext. of seeds T mosquito larvae; oil T *Lucilia cuprina* larvae and codling moth. 645, 848, 1423A.
- Fomes officinalis* (Fr.) Faull. (*Polyporus officinalis* Fr.; larah agaric).  
Exts. from fungus were not repellent to Japanese beetle; NT caterpillars of *Prodenia litura*. 933B.
- Foxglove, see *Digitalis purpurea*.
- Frangipani, Mexican, see *Plumeria rubra*.
- Frankincense, see *Boswellia carteri*.
- Fraxinus americana* L. (White ash).  
Exts. were not repellent to Japanese beetle. 933B.
- Fringe tree, see *Chionanthus virginicus*.
- Fumaria officinalis* L. (Common fumitory).  
Acetone ext. of whole plant NT mosquito larvae; exts. from plants were not repellent to Japanese beetle. 645, 933B.
- Furcraea hexapetala* (Jacq.) Vent. (*F. cubensis* Vent.).  
NT silkworms. 933.
- Furtic, see *Chlorophora tinctoria*.
- Galactia* sp. (*G. regularis* (L.) BSP.?).  
Roots reported to contain rotenone. 759.
- Galangal, see *Alpinia officinarum*.
- Galea officinalis* L. (Common goatrue).  
Exts. were not repellent to Japanese beetle. 933B.
- Galedupa indica*, see *Pongamia pinnata*.
- Galega officinalis*. (Galega).  
Acetone ext. of whole plant NT mosquito larvae. 644.
- Galega piscatoria*, see *Tephrosia piscatoria*.
- Galega purpurea*, see *Tephrosia piscatoria*.
- Galinsoga parviflora* Cav. (*Galinsoga*).  
NT aphids. 933.
- Galium aparine* L. (Bedstraw).  
Exts. were not repellent to Japanese beetle. 933B.
- Galium triflorum* Michx. (Fragrant bedstraw).  
Exts. were not repellent to Japanese beetle. 933B.
- Gambier, see *Uncaria gambir*.
- Garcinia hanburyi* Hook. f.  
Various gums were tested with oils to find a stable emulsifier. Ammoniac gamboge gum was one of four efficient gums used. (This may not be correctly classified.) 933B.
- Garcinia morella* Desr.  
Exts. used as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.
- Gardenia campanulata* Roxb. (Bihmona).  
This fish poison plant grows profusely in Assam; juice was evidently an efficient larvicide in dilution up to 1 in 50; larvicidal action due to a saponin. 933B.
- Gardenia gummifera* L. f.  
In India the gum was used to keep insects from sores on cattle; strong-smelling gum resin used extensively in European hospitals and veterinary work to keep flies from sores. 933B.
- Gardenia lucida* Roxb.  
Strong smelling gum resin from wounds in the bark and from leaf buds of this tree was used in cutaneous diseases and to keep off flies and worms. 933B.
- Garlic, see *Allium sativum*.

- Garlic, meadow, see Allium canadense.*  
*Gaultheria fragrantissima* Wall.  
 Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.  
*Gaultheria procumbens*. (Wintergreen).  
 Water ext. of whole plant 20% T mosquito larvae. 643A.  
*Gayfeather, spikes, see Liatris spicata.*  
*Gelsemium, elegant Benth.*  
 In China this plant was used against all kinds of insects. 933B.  
*Gelsemium sempervirens* (L.) Ait. (Yellow jessamine).  
 Honeybees visiting the flowers are poisoned, but only young workers were affected. 933B.  
*Gendarussa vulgaris, see Justicia gendarussa.*  
*Genista germanica* L. (European broom).  
 An infusion controlled cabbage worms in France, also larvae of cochyliis and cabbage butterfly. 933B.  
*Genista tinctoria* L. (Woodwaxen).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Genista* sp. (Broom).  
 Spartine and other exts. of broom seeds have been used for mothproofing purposes. 933B, 1176, 1260P.  
*Gentian, centaur, see Centaurium umbellatum.*  
*Gentian, rose, see Sabatia angularis.*  
*Gentian, yellow, see Gentiana lutea.*  
*Gentiana lutea* L. (Yellow gentian).  
 Radix gentianale NT caterpillars of *Prodenia litura*; exts. were not repellent to Japanese beetle. 933B.  
*Geranium, see Pelargonium zonale.*  
*Geranium carolinianum* L. (Cranebill geranium).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Geranium, cranebill, see Geranium carolinianum.*  
*Geranium, lemon, see Pelargonium crispum.*  
*Geranium maculatum* L. (Wild geranium).  
 Acetone ext. of root 20% T mosquito larvae. 643A.  
*Geranium, rose, oil of, see Pelargonium odoratissimum.*  
*Geranium, wild, see Geranium maculatum.*  
*Gerardia, see Pelargonium spp.*  
*Gerardia, see Ascarolaria pedicularia.*  
*Gerbera jamesoni* Bolus.  
 Acetone ext. of stems T mosquito larvae. 645.  
*German, American, see Teucrium canadense.*  
*Ginger, Jamaica, see Zingiber officinale.*  
*Ginkgo biloba* L. (Ginkgo).  
 Acetone and water ext. NT mosquito larvae. 643A.  
*Girardinia palmata* (Forak.) Gaudich.  
 Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.  
*Gironniers reticulata* Thwaites.  
 Plant, scraped fine and mixed with lemon juice, used in India to anoint the body to cure itch. 933B.  
*Gladiolus* spp. (Gladiolus).  
 Acetone ext. of leaves 5% T mosquito larvae. 643A.  
*Gleoma hederacea* L. (*Nepeta hederacea* (L.) Trevian; ground ivy).  
 Exts. were not repellent to Japanese beetle; water exts. of whole plant 30% T mosquito larvae. 643A, 933B.  
*Gliricidia sepium* (Jacq.) Steud. (Madriado).  
 Insecticidal plant occurring in Nicaragua. 933B.  
*Gloriosa superba* L.  
 Juice of leaves used in India for destruction of lice in hair. 933B.  
*Glycine soja*. (*G. hispida*; *Soja maz* (L.) Piper; soybean).  
 Oil, crude and refined, T cockroach, Colorado potato beetle, and Mexican bean beetle eggs; eggs immersed in oils for prolonged periods collapsed, apparently through loss of water. 78, 933B.  
*Glycyrrhiza glabra* L. (Common licorice).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Glycyrrhiza glabra typica*. (Spanish licorice).  
 Acetone ext. of root NT mosquito larvae. 645.  
*Gmelina arborea* Roxb.  
 Juice of the leaves used by Hindus to remove fetid discharges and worms from ulcers. 933B.  
*Gnaphalium obtusifolium* L. (Sweet everlasting).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Goatsrue, common, see Galea officinalis.*  
*Goldenrod, see Solidago sp.*  
*Goldenrod, early, see Solidago juncea.*  
*Goldenrod, fragrant, see Solidago odora.*  
*Goldenrood, see Hydrastis canadensis.*  
*Gold thread, Alaska, see Ceptis trifolia.*  
*Gold thread, common, see Ceptis groenlandica.*  
*Gerse, see Ulex Europaea.*  
*Gossypium barbadense* L. (Sea-island cotton).  
 Cottonseed oil has insecticidal value. 933B.  
*Gossypium* spp.  
 Oil (soluble) T cockroach, Colorado potato beetle, and Mexican bean beetle; oil (sulphonated) T as mothproofing agent; MT *Phenococcus gossypii*. 78, 265, 827P, 980P, 1176, 1179.  
*Gouania lupuloides* (L.) Urban. (*G. domingensis* L.). 933.  
*Gouania polygama* (Jacq.) Urban. (*G. tomentosa* Jacq.). 933.  
 Gourd, see *Cucurbita pepo ovifera*.  
 Gourd, dish-cloth, see *Luffa* sp.  
 Gourd, Missouri, see *Cucurbita foetidissima*.  
 Gourd, Turk's turban, see *Cucurbita maxima*.  
 Grass, Bermuda, see *Cynodon dactylon*.  
 Grass, blue-eyed, see *Sisyrinchium* sp.  
 Grass, cuscus, see *Veliveria sisanioides*.  
 Grass, molasses, see *Melinis minutiflora*.  
 Grass, quack, see *Agropyron repens*.  
 Grass, sleepy, see *Stipa viridula*.  
 Grass, velvet, see *Holcus lanatus*.  
 Greenbrier, common, see *Smilax rotundifolia*.  
*Grewia carpalifolia* Juss.  
 Women in west tropical Africa used sap in washing the hair to remove or prevent lice. 933B.  
*Grewia tiliaefolia* Vahl.  
 In India, bark employed externally to remove irritation of cow itch. 933B.  
*Grindelia camporum* Greene. (Grindelia).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Grindelia* sp. (*Grindelia robusta*).  
 Acetone ext. of whole plant 65% T mosquito larvae. 643A.  
 Groundnut, see *Arachis hypogaea*.  
 Groundsel, see *Senecio aureus*.  
*Gustaceum officinale* L. (Guallacan tree).  
 Guaiacol, which is derived from this tree, was considered one of best repellents to screwworm. 933B.  
*Guarea rusbyi* (Britton) Rusby. (Coillana).  
 Exts. from dry bark were repellent to Japanese beetle. 933B.  
*Gulandina dioica, see Gymnocladus dioica.*  
 Gum, blue, see *Eucalyptus globulus*.  
 Gum, karaya, see *Karaya gum*.  
 Gum, kino, see *Butea monosperma*.  
 Gum, myrrh, see *Commiphora myrrha*.  
 Gum, sweet, see *Liquidambar styraciflua*.  
*Gustavia angusta* L.  
 Fruit used as fish poison. 795.  
*Gustavia brasiliensis* DC.  
 Fruit used as fish poison. 795.  
*Gymnocladus dioica* (L.) Koch. (*G. canadensis* Lam.; *Gulandina dioica* L.; Kentucky coffee tree).  
 Leaves and fruit pulp, when rubbed with milk, T flies; juice from green leaves, mixed with sugar sirup, molasses and honey; NT flies. 933.  
*Gynandropsis montana* Benth. (*Calatrus montana* Roxb.).  
 Bark, ground to a paste, applied with oils to the head to destroy Pediculids. 933B.  
*Gynandropsis senegalensis* (Lam.) Loes.  
 Bark, ground to a paste, applied with oils to the head to destroy Pediculids. 933B.  
*Gynandropsis gymandra* (L.) Briq. (*G. pentaphylla* (L.) DC.).  
 Used in India as insecticide; seeds, rubbed with oil, used as vermicide in dressing the hair. 933B.  
*Gynocarpus odorata* E. Br. (Chaulmoogra).  
 Rare earth salts of chaulmoogric acid were claimed for mothproofing; fruit used as fish poison and as insecticide. 933B.  
*Gypsophila vaccaria, see Saponaria vaccaria.*  
*Gyrostachys tinctoria, see Echinantes tinctoria.*  
*Habenaria blephariglotis* (Willd.) Torr. (White fringe-orchid).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Hemataxylon campechianum* L. (Logwood).  
 Two commercial exts. were effective repellents against Japanese beetle; acetone ext. of wood NT mosquito larvae. 645, 933B.

- Hageia abyssinica*. (Kumo tree).  
Acetone ext. of flowers NT mosquito larvae. 645.
- Haiari*, see *Leishocarpus* spp.
- Haiari*, red, see *Leishocarpus* spp.
- Halecia carolina* L. (Silverbell tree).  
Dead Japanese beetles were found under this tree. 933B.
- Mammalis virginiana* L. (Witch hazel).  
Acetone ext. of bark NT mosquito larvae. 645.
- Haplophyten cilioidum* A. DC. (Cucuracha).  
T several species of insects. 27, 203, 296, 643A, 933.
- Harsara*.  
Only vegetable insecticide found in Madagascar; decoction from roots was stated to be an excellent insecticide and much employed by the natives to destroy parasites of the scalp. 933B.
- Haronga madagascariensis* Cholsy. (*H. paniculata* Lodd.).  
Exts. from bark of plant from Sierra Leona NT bean aphid. 933B.
- Hartstongue*, see *Phyllitis scolopendrium*.
- Hawkwood*, see *Hieracium pratense*.
- Hebitchoshabu*, see *Serjania* sp.
- Hedeoma pulegioides* (L.) Pers. (*Cunila pulegioides* L.; American pennyroyal)  
NT cotton caterpillars and mosquito larvae; oil 99-80% T *Lucilia cuprina* larvae. 643A, 849, 933.
- Hedera helix* L. (English ivy).  
Exts., 5% spray soln., 43% T six species of caterpillars, and 1% soln. 13% T four of these species; results in other tests proved them not so efficient as various other insecticides 933B.
- Hedera quinquefolia*, see *Parthenocissus quinquefolia*.
- Hedera* spp.  
In India ivy leaves have, from remote antiquity, been reputed to possess remedial virtues, especially as dressing for ulcers and to destroy vermin on the body. 933B.
- Hedychium spicatum* Hamilt.  
In India this plant was said to protect clothes from insect attacks. 933B.
- Helenium autumnale* L. (Sneezeweed).  
NT cotton caterpillars. 27, 203, 933.
- Helenium tenuifolium* Nutt. (Bitterweed).  
Powder from heads ST silkworms, flies, and aphids; NT cotton caterpillars. 27, 933.
- Helenium* sp. (*Yerba de la pulga*).  
Plant possesses exceptional insect-repelling qualities, and not only contains but actually exudes sufficient quantities of rotenone to make a single growing specimen of the plant repellent to practically all forms of insect life in an area of some 15 to 20 sq. feet. 933B.
- Heliathemum canadense* (L.) Michx. (Sunrose).  
Exts. were not repellent to Japanese beetle. 933B.
- Helianthus annuus* L. (Common sunflower).  
Exts. were not repellent to Japanese beetle. 933B.
- Heliopsis helianthoides* (L.) (Helopsis; sweet sunflower).  
Exts. were not repellent to Japanese beetle. 933B.
- Heliotropium arborescens*. (*H. peruvianum* L.).  
T body lice. 933B.
- Heliotropium europaeum* L.  
T body lice. 933B.
- Heliotropium indicum* L. (India heliotrope).  
NT cotton caterpillars. 933.
- Heliotropium peruvianum*, see *H. arborescens*.
- Hellebore*, American false, see *Veratrum viride*.
- Hellebore*, black, see *Helleborus niger*.
- Hellebore*, fetid, see *Helleborus fetidus*.
- Hellebore*, green, see *Veratrum viride*.
- Hellebore*, white false, see *Veratrum album*.
- Helleborus fetidus* L. (Fetid hellebore).  
Exts. were not repellent to Japanese beetle. 933B.
- Helleborus niger* L. (Black hellebore).  
Powdered roots NT fly larvae. 933.
- Helleborus orientalis* Lam.  
Used by ancient Greeks and Romans in treating mania, skin diseases, etc. 933B.
- Helonias bullata* L. (Swamp pink).  
Exts. were repellent to the Japanese beetle. 933B.
- Helonias erythrogyna*, see *Ambianthus muscotoxicum*.
- Helonias officinale*, see *Schoenocaulon officinale*.
- Hemerocallis filva* L. (Day lily).  
Exts. were not repellent to Japanese beetle. 933B.
- Hamlock*, Canada, see *Thuja canadensis*.
- Hamlock*, poison, see *Ceanothus maculatus*.
- Hamlock*, spotted water, see *Clethra maculata*.
- Hemp*, common, see *Cannabis sativa*.
- Henbane*, see *Hyoscyamus niger*.
- Henna*, Egyptian, see *Lawsonia inermis*.
- Hepatica americana* (DC.) Kar. or *H. nobilis* Schreb. (Hepatica).  
Exts. were not repellent to Japanese beetle. 933B.
- Hercules-club*, see *Zanthoxylum clava-herculis*.
- Herpestis monnieri*, see *Bramia monnieri*.
- Herve* spp. (Rubber tree).  
Rubber latex was employed as an ingredient of an adhesive composition which might be used for mothproofing. 933B.
- Hibiscus abelmoschus* L. (*Abelmoschus moschatus* Moench).  
In Bombay seeds are rubbed to paste with milk and used to cure itch. 933B.
- Hibiscus trionum* L. (Flower-of-an-hour).  
Exts. were not repellent to Japanese beetle. 933B.
- Hibiscus vitifolius* L.  
In Africa a preparation from roots used to kill head lice. 933B.
- Hickory*, see *Carya* sp.
- Hicoria glabra*, see *Carya glabra*.
- Hieracium pratense* Tausch. (Hawkweed).  
Exts. from entire plant were repellent to Japanese beetle. 933B.
- Hung*, see *Ferula fetida*.
- Hippobroma longiflora*, see *Isotoma longiflora*.
- Hippomane mancinella* L.  
Used in Mexico as fish poison. 795.
- Hiptage benghalensis* (L.) Kurz. 933B.
- Hiptage madagascariensis* Gaertn. 933.
- Hoarhound*, see *Marrubium vulgare*.
- Holcus lanatus* L. (Velvet grass).  
Exts. were not repellent to Japanese beetle. 933B.
- Holesampige*.  
5.7% Alch. ext. of stem bark 100% T adult grasshoppers. 933B.
- Holigarna amothiana* Hook. (Bibo).  
Ext. of seeds mixed with kerosene tested as larvicide against mosquitoes gave poor results. 933B.
- Holly*, American, see *Ilex opaca*.
- Hollygrape*, Oregon, see *Mahonia aquifolium*.
- Holorrhena antidiysenterica* Wall.  
Green vegetable matter decaying in water sometimes pollutes water and thus helps to control mosquitoes; this species contains several alkaloids. 933B.
- Honey dew*, see *Melon*.
- Honeysuckle*, Japanese, see *Lonicera japonica*.
- Hongay*, see *Pongamia pinnata*.
- Hooreoasha*.  
Decoction of bark was employed to destroy pediculi. 933B.
- Hops*, see *Humulus lupulus*.
- Horse chestnut*, see *Aesculus hippocastanum*.
- Horse nettle*, see *Solanum carolinense*.
- Horseradish*, see *Armoracia lapathifolia*.
- Horseweed*, see *Erigeron canadensis*.
- Houndstongue*, common, see *Cynoglossum officinale*.
- Humulus lupulus*. (Hops).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Huon*, oil of.  
19-0% T *Lucilia cuprina* larvae. 849.
- Hura crepitans* L. (Sandbox tree).  
Sap used as fish poison; NT aphids. 795, 933.
- Hura polyandra* Baill. (Javillo).  
In Central America this plant produces a latex of blistering properties which was used against microscopic skin parasites, especially *Tunga penetrans*. 933B.
- Hyacinthus orientalis* L. (Common hyacinth).  
Exts. were not repellent to Japanese beetle. 933B.
- Hydnocarpus anthelminticus* Pierre.  
Seeds used as insecticide. 933.
- Hydnocarpus venenosus* Gaertn.  
Fruit used as fish poison and as insecticide. 933B.
- Hydnocarpus wightianus* Blume. (Maraviti tree).  
In India the oil, beaten up with kernels and shells of castor oil seeds, used as remedy for itch; use of powdered cake of fruit checked coconut rhinoceros

- beetle; claimed to be fish poison in East Africa, but exts. of leaves and bark had no appreciable toxic effect on citrus aphids. 933B.
- Hydrangea aborascens*. (Hydrangea).  
Acetone ext. of root 90% T mosquito larvae. 643A.
- Hydrastis canadensis*. (Goldenseal).  
Water ext. of root 70% T mosquito larvae. 643A.
- Hydrolea, seylanica* Vahl.  
Leaves beaten into pulp and applied as poultice were considered efficacious in cleaning and healing bad ulcers, particularly those in which maggots had begun to breed. 933B.
- Hymenaea courbaril* L.  
Anise gum was unstable as emulsifier. 933B.
- Hyoscyamus albus* L.  
Decoction recommended as insecticide in Germany. 933B.
- Hyoscyamus niger* L. (Henbane).  
T aphids. 933.
- Hyoscyamus* spp.  
Exts. were tested against four species of caterpillars, 5% spray 20% T and 1% spray only 15% T; commercial exts. were not significantly toxic to bean aphid; an ext. used to mothproof wool; a concentrated infusion made of a mixture of dry, chopped inflorescences, leaves, stems, and roots (1 lb. to 1 gal. water) rapidly killed aphids on cabbage and watermelons, as well as other Rhynchota. 517P, 933B, 1175.
- Hypericum perforatum* L. (St. Johnswort). 933B.
- Hypoxis spicata* Lam.  
In Africa plant is burned in rooms to get rid of mosquitoes, and is placed in layer below bundles of millet to keep away termites. 933B.
- Hyssopus officinalis* L. (Hyssop).  
Acetone ext. of flowers and stems T mosquito larvae; ext. of whole plant T mosquito larvae. 645.
- Island moss, see *Cetraria islandica*.
- Ichthyomethia piscipula*, see *Piscidia piscipula*.
- Ichthyothere terminalis* (Spreng.) Blake.  
Used as fish poison. 795.
- Ilex opaca* Ait. (American holly).  
Exts. from fresh leaves were more or less repellent to Japanese beetle. 933B.
- Ilex paraguayensis*. (Paraguay tea).  
Ext. of leaves NT mosquito larvae. 645.
- Ilex verticillata* (L.) A. Gray. (Common winter-berry).  
Exts. were not repellent to Japanese beetle. 933B.
- Impatiens balsamina* L. (Garden balsam).  
T as mothproofing agent; exts. were not repellent to Japanese beetle. 933B, 1137P, 1175.
- Impatiens biflora* Walt. (Spotted snapweed).  
Exts. were not repellent to Japanese beetle. 933B.
- Imperatoria ostruthium*, see *Pseudanum ostruthium*.
- Indian jack tree, see *Artocarpus heterophyllus*.
- Indian tobacco, see *Lobelia inflata*.
- Indian turnip, see *Arisaema dracontium*.
- Indigo, true, see *Indigofera tinctoria*.
- Indigo, yellow wild, see *Baptisia tinctoria*.
- Indigofera tinctoria* L. (*I. indica* Lam.; true indigo).  
Used in Jamaica to destroy vermin. 933.
- Insect flowers, Caucasian, see *Chrysanthemum marschallii*.
- Insect flowers, dalmatian, see *Chrysanthemum cinerariifolium*.
- Insect flowers, Persian, see *Chrysanthemum* sp.
- Inula conyzia* DC. (*I. squarrosa* Bernh.; *Conyza squarrosa* L.; cinnamon-root). 933.
- Inula dysenterica*, see *Pulicaria dysenterica*.
- Inula helenium*. (Elecampane).  
Acetone ext. of root 100% T mosquito larvae. 643A.
- Inula pulicaria*, see *Pulicaria vulgaris*.
- Inula squarrosa*, see *Inula conyzia*.
- Inula viscosa* (L.) Ait. (*Erigeron viscosus* L.).  
Fumes of burning plant has stupefying effect on mosquitoes. 933.
- Ipecac, see *Cephaelis acuminata*.
- Ipomoea hederacea* Jacq.  
Decoctions of fresh leaves and young shoots used against aphids, scale insects, caterpillars, and flea beetles. 933B.
- Ipomoea jalapa*, see *Exogonium purga*.
- Ipomoea muricata* Jacq.  
Juice used to destroy bugs. 933B.
- Ipomoea peduncata* (L.) Meyer.  
Exts. were not repellent to Japanese beetle. 933B.
- Ipomoea purpurea* (L.) Roth.  
Decoctions of fresh leaves and young shoots used against aphids, scale insects, caterpillars, and flea beetles. 933B.
- Ipomoea* sp.  
Alch. exts. of tubers from British Solomon Islands NT bean aphid. 933B.
- Iris, blueflag*, see *Iris versicolor*.
- Iris florentina* L. (Orris-root).  
NT chicken lice, dog fleas, and clothes moths. 933, 1024, 1176.
- Iris germanica* L. (German orris root).  
NT chicken lice, dog fleas, and clothes moths. 933B.
- Iris versicolor* L. (Blueflag iris).  
Acetone and water exts. of roots 5% T mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.
- Ironweed, common, see *Veronica noveboracensis*.
- Ironwood, see *Ostrya virginiana*.
- Isotoma longiflora* (L.) Presl. (*Hippobroma longiflora* (L.) Presl.).  
Powdered leaves and infusions NT caterpillars of *Prodenia litura*. 933B.
- Iuru, see *Momordica schimperiana*.
- Ivy, English, see *Hedera helix*.
- Ivy, ground, see *Gleasonia hederacea*.
- Jaborandi, see *Pilocarpus jaborandi*.
- Jacaranda copaja (Aubl.) D. Don.  
Used as fish poison. 795.
- Jack-in-the-pulpit, see *Arisaema triphyllum*.
- Jacquinia barbasco* (Loefl.).  
Leaves and fruit used as fish poison. 795.
- Jacquinia brasiliensis* Mez.  
Used as fish poison. 795.
- Jacquinia gracilis* Mez.  
Used as fish poison. 795.
- Jacquinia mucronulata* Blake.  
Used as fish poison. 795.
- Jacquinia revoluta* Jacq.  
Used as fish poison. 795.
- Jacquinia ruscifolia* Jacq.  
Exts. of stems and leaves NT bean aphid. 933B.
- Jacquinia sprucei* Mez.  
Used as fish poison. 795.
- Jalap, see *Exogonium purga*.
- Jatropha curcas* L.  
Used as fish poison. 795.
- Jatropha macrocarpa* Benth.  
Powder used as dust ST tent caterpillars and roaches. 933.
- Javillo, see *Hura polyandra*.
- Jeffersonia diphylla* (L.) Pers. (Twinleaf).  
Exts. were not repellent to Japanese beetle. 933B.
- Jessamine, yellow, see *Gelsemium sempervirens*.
- Jequirity, see *Abrus precatorius*.
- Jimsonweed, see *Datura stramonium*.
- Joannesia princeps* Vell.  
Bark and seeds used as fish poison. 795.
- Juglans cinerea*. (Butternut).  
Water ext. of root bark 55% T mosquito larvae. 643A.
- Juglans glabra*, see *Carya glabra*.
- Juglans nigra* L. (Black walnut).  
Infusion from leaves used to kill plant lice and certain caterpillars; decoction of leaves poured on woolly aphids and in soil about roots of orchard trees gives good results; acetone ext. of bark T mosquito larvae. 645, 933.
- Juglans regia* L. (*J. regia* var. *kumaonica* C. DC.; Persian walnut).  
Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.
- Juncus effusus* L. (Common rush).  
Exts. were not repellent to Japanese beetle. 933B.
- Juniper, see *Juniperus* sp.
- Juniperus communis* L.  
Oil of juniper berries T *Lucilia cuprina* larvae. 849.
- Juniperus oxycedrus* L. (Cade oil).  
Oil T as mothproofing agent; cade oil T *Lucilia cuprina* larvae. 849, 1179, 1252P.
- Juniperus sabina* L. (*Sabina officinalis* Garcke; savin).

- Aquacorus* exts. of young shoots used for mothproofing. 183P, 933, 1173.
- Juniperus virginiana* L. (Red cedar and other species of cedar).  
Aroma from volatile oil contained in wood is the insecticidal principle; cedar dust, leaf oil, and wood oil T as mothproofing agent; leaves and oil NT clothes moth (42, 43, 1024, 1479). 42, 43, 46, 397P, 933, 1024, 1137P, 1175, 1176, 1179, 1261P, 1479, 1490P.
- Juniperus* sp.  
Acetone ext. of berry 70% T mosquito larvae. 643A.
- Justicia adhatoda* L. (*Adhatoda vasica* Nees.; malabar nut).  
T flies, fleas, mosquitoes, and pupae of aquatic insects. 933.
- Justicia gendarussa* L. f. (*Gendarussa vulgaris* Nees.).  
5% Ext. 100% T caterpillars of *Prodenia litura* and *Euproctis fraterna*, 8% ext 80% T *E. fraterna*; 3% ext. of root bark 60% T *E. fraterna* and 4% ext. 100% T; powdered roots, leaves, and stems dusted upon beetles 75-80% T; leaves scattered among clothes preserves them from insects. 933B.
- Justus repens*, see *Rungia repens*.
- Kagayaw, see *Banksia simplicifolia*.
- Kalanchoe laetifolia. (*K. spatulata* DC.).  
Leaves used as insecticide. 933B.
- Kalmia angustifolia* L. (Lambkill).  
Dried leaves NT fly larvae. 933.
- Kalmia latifolia* L. (Mountain laurel).  
Infusions of dried leaves NT fly larvae in horse manure; exts were not repellent to Japanese beetle 933B.
- Kamala, genuine, see *Mallotus philippinensis*.
- Kaner, see *Nerium indicum*.
- Karsya gum.  
T red spider, thrips, mealy bug, and aphids. 235.
- Karwinskia humboldtiana Zucc. (Margarita)  
T silkworms, ST caterpillars and NT tulip tree aphids 933
- Kemenyan, see *Styrax benzoin*.
- Kerria japonica (L.) DC  
Powder (20% in flour) NT caterpillars of *Prodenia litura* 933B
- Keyserlingia griffithii*, see *Sophora griffithii*.
- Killsee, see *Chondrus crispus*.
- Koelia flexuosa*, see *Pyrenantherum flexuosum*.
- Koeleruteria apiculata* Rehd. and Wilson.  
Ext. seeds T mosquito larvae 645
- Koeleruteria paniculata* Laxm  
Ext. of seeds and leaves T mosquito larvae 645
- Kuseo tree, see *Hagenia abyssinica*.
- Krigia biflora* (Walt.) Blake. (Cynthia)  
Ext. were not repellent to Japanese beetle. 933B.
- Kudzu vine, see *Pueraria hirsuta*.
- Kuhit bentangor, see *Calophyllum spectabile*.
- Kwame nuts, see *Telfairia pedata*.
- Laburnum anagyroides*. (*Cytisus laburnum* L.; laburnum).  
Too toxic to human skin to be considered as practical louse remedy; crude cytisine, NT eggs of moth; 5% chloroform ext. of seeds 100% T bean aphid and 2 5% ext 80% T. 933B
- Lachnanthes tinctoria* (Walt.) Ell. (*Gyrotheca tinctoria* (Walt.) Salisb.; redroot).  
Full-strength exts from entire plant were repellent to Japanese beetle 933B.
- Lactuca canadensis* L. (Wild lettuce).  
Ext. were not repellent to Japanese beetle. 933B.
- Lactuca virosa*. (Bitter lettuce).  
Ext. of leaves T mosquito larvae. 645.
- Lactuca* sp. (Lettuce)  
A spray, made by boiling 20 to 30 min. 1 lb. lettuce plants from which seed head has begun to shoot in 2 gal water and strained, was recommended for eradicating cabbage moth and cabbage aphid in New South Wales. 933B.
- Lady'slipper, see *Cypripedium* sp.
- Lagenandra ovata* (L.) Thw. (*L. toxicaria* Dals.).  
Used as insecticide in India. 933B.
- Lai-tung.  
Reported to contain rotenone. 759.
- Lambkill, see *Kalmia angustifolia*.
- La mah.  
Seeds reported to contain rotenone. 759.
- Lamium amplexicaule* L. (Dead nettle).  
Ext. were not repellent to Japanese beetle. 933B.
- Lancepod, see *Leuchosaurus* sp.
- Lantana camara* L.  
Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.
- Larkspur, see *Delphinium* sp.
- Larkspur, field, see *Delphinium consolida*.
- Larkspur, low, see *Delphinium bleeker*.
- Larkspur, musk, see *Delphinium bronzianum*.
- Larkspur, rocket, see *Delphinium ajacis*.
- Larkspur, stavesacre, see *Delphinium staphisagria*.
- Larrea divaricata* Cav. (*Covillea tridentata* (DC.) Vail; creosotebush).  
Ext. of leaves 20% T mosquito larvae and exts. of stems and roots NT. 643A, 933B.
- Lasiosiphon ericeae* Housl. Decaisne.  
Bark used as fish poison and as insecticide in India; exts. of fruit in Mysore had varying toxic properties against aphids. 933B.
- Laurel, see *Laurus nobilis*.
- Laurel, Alexandrian, see *Calophyllum inophyllum*.
- Laurel, California, see *Umbellularia californica*.
- Laurel, mountain, see *Kalmia latifolia*.
- Laurel, spurge, see *Daphne mezereum*.
- Lauro-cerassi, oil of  
100% T *Lucilia cuprina* larvae. 849.
- Laurus nobilis*. (Laurel)  
Ext. of leaves NT mosquito larvae 645.
- Laurus sassafras*, see *Sassafras variifolium*.
- Lavandula officinalis* Chaix (*L. angustifolia* Mill.; *L. spica* L.; *L. vera* DC; true lavender).  
Acetone ext. of leaves, stems, and flowers NT mosquito larvae; oil 51-80% T red spider and cotton aphids, 40-59% T *Lucilia cuprina* larvae, T clothes moth, and strongly repellent to cockroach; flowers scattered on clothes are worthless for moth control. 42, 643A, 645, 849, 933, 933B, 1024, 1025, 1176, 1220, 1223, 1268.
- Lavandula* spp  
Used with success in war time against infestations of lice and mites, in Belgium used to repel mosquitoes 933B
- Lavender, see *Lavandula officinalis*.
- Lavender-cotton, see *Santolina chamaecyparissus*.
- Lavender, sea, see *Limonium carolinianum*.
- Lavender, true, see *Lavandula officinalis*.
- Lawsonia inermis*. (Egyptian henna).  
Acetone ext. of leaves NT mosquito larvae 645.
- Leatherwood, southern, see *Cyrilla racemiflora*.
- Lechuguilla, see *Agave lechuguilla*.
- Ledum groenlandicum* Oeder. (*L. latifolium* Ait.; Labrador-tea)  
T lice, insects, etc. 933
- Ledum palustre* L. (Crystal-tea)  
Leaves and twigs used as insecticide. 933.
- Leek, see *Allium ampeloprasum* porrum.
- Lemon, oil of, see *Citrus limon*.
- Leontodon tuberosus* L. (*Thrinia tuberosa* DC.).  
NT flies and fleas 933
- Leonurus cardialis* L. (Common motherwort).  
Ext. were not repellent to Japanese beetle. 933B.
- Lepidium ruderale* L. (Peppergrass).  
Recommended against flea beetles in Austria; used as insecticide in Japan; used as fumigant against aphids and mites in hothouses. 933B.
- Lepidium virginicum* L. (Wild peppergrass).  
Ext. were not repellent to Japanese beetle. 933B.
- Lettuce, see *Lactuca* sp.
- Lettuce, bitter, see *Lactuca virosa*.
- Lettuce, water, see *Pistia stratiotes*.
- Lettuce, wild, see *Lactuca canadensis*.
- Leucanthemum vulgare*, see *Chrysanthemum leucanthemum*.
- Leucos cephalotes* (Roth) Spreng. (*L. capitata* Desf.).  
Used in India as external application for scabies. 933B.
- Leucos martinicensis* R. Br.  
In Nigeria plant is burned for purpose of driving away mosquitoes. 933B.
- Leucostem arvensis* Maxim.  
Ext. of dried leaves sprayed on larvae of various

- insects in Japan. Some samples were fairly toxic to *Phaedon brassicae*, 80 to 80%, but most of them were not effective enough to be promising as insecticides. 933B.
- Levistium officinale* Koch. (Lovage).  
Acetone ext. of leaves and stems NT mosquito larvae. 645.
- Liatris spicata* (L.) Willd. (Spike gayfeather).  
Exts. were not repellent to Japanese beetle. 933B.
- Licorice, common, see *Glycyrrhiza glabra*.  
Licorice, Spanish, see *Glycyrrhiza glabra typica*.  
Linaloe or Lingaloe, oil of, see *Bursera pentalata*.  
*Ligustrum vulgare* L. (European privet).  
Exts. were not repellent to Japanese beetle. 933B.
- Lilac, common, see *Syringa vulgaris*.  
*Lilium superbum* L. (Turkcap lily).  
Exts. were not repellent to Japanese beetle. 933B.
- Lily, day, see *Hemerocallis fulva*.  
Lily-of-the-valley, see *Convallaria majalis*.  
Lily, trout, see *Erythronium americanum*.  
Lily, turkcap, see *Lilium superbum*.  
Lime, see *Citrus aurantifolia*.  
*Limonium carolinianum* (Walt.) Britton. (Sea lavender).  
Exts. were not repellent to Japanese beetle. 933B.
- Linaria vulgaris* Mill. (*L. linaria* Karst.; *Antirrhinum linaria* L.; common toadflax; butter and eggs).  
Expressed juice mixed in milk T flies; acetone ext. of flowers and leaves NT mosquito larvae. 645, 933.
- Linden, European, see *Tilia europaea*.  
Linden, silver, see *Tilia tomentosa*.  
*Lindera benzoin* (L.) Blume. (*Benzoin acutata* (L.) Nees; spicebush).  
Acetone ext. of buds 65% T mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.
- Linosyris vulgaris*. (*Aster linosyris* Bernh.).  
Heads NT flies. 933.
- Linum usitatissimum* L. (Flax).  
Linseed oil is derived from flax seeds which are nonpoisonous, although when oil is properly used it has some insecticidal properties; boiled linseed oil is attractant for *Lasioderma serricorne*; sulphated linseed oil T as mothproofing agent. 933B, 980P, 1012, 1176.
- Lippia deltoidea* Trevir. (Lippia).  
Exts. were not repellent to Japanese beetle. 933B.
- Lippia triphylla* (L'Her.) Kuntze. (*L. citriodora* H. B. K.).  
Oil T red spider and cotton aphid. 933B.
- Liquidambar styraciflua L. (Sweet gum).  
Exts. were not repellent to Japanese beetle. 933B.
- Liriodendron tulipifera* L. (Tulip tree).  
Water ext. of leaves 85% T mosquito larvae. 643A.
- Litsea glaucescens* H. B. K.  
Powdered leaves used against ants. 933B.
- Litsea guatemalensis* Mez.  
Powdered leaves used against ants. 933B.
- Lizardtail, common, see *Saururus cernuus*.  
*Lobelia cardinalis* L. (Cardinal flower).  
Exts. were not repellent to Japanese beetle. 933B.
- Lobelia inflata*. (Indian tobacco).  
T aphids and other insects; acetone ext. of whole plant NT mosquito larvae. 645, 1144.
- Lobelia tupea* L.  
Used as fish poison. 795.
- Loowoods, see *Astragalus* spp.
- Locust, common, see *Robinia pseudoacacia*.  
Logwood, see *Hematoxylon campechianum*.  
*Lomatia silaifolia* (Sm.) R. Br. (Parsley fern).  
Reported in New South Wales that flowers were poisonous to flies, the number in room being greatly diminished when a bunch of flowers was put in streptococci. 933B.
- Lonchocarpus atropurpureus*, see *Lonchocarpus* spp.
- Lonchocarpus chrysophyllus* Kleinh.  
Roots reported to contain rotenone. 759, 795.
- Lonchocarpus densiflorus* Benth.  
Used as fish poison. 795.
- Lonchocarpus densatus* Benth.  
Roots used as fish poison. 795.
- Lonchocarpus floribundus* Benth. (*L. nitidulus* Benth.).  
Leguminous plant reported to contain rotenone. 759, 795.
- Lonchocarpus guariensis* Pittier.  
Used as fish poison. 795.
- Lonchocarpus guatemalensis*, see *Lonchocarpus* spp.
- Lonchocarpus hondurensis*, see *Lonchocarpus* spp.
- Lonchocarpus latifolius* (Willd.).  
Used as fish poison. 795.
- Lonchocarpus madagascariensis* (Boivin) R. Vigier.  
Leguminous plant reported to contain rotenone. 759.
- Lonchocarpus martyi* A. C. Smith.  
Stems reported to contain rotenone. 759.
- Lonchocarpus negrensis* Benth. (*Derris amazonica* Killip).  
Roots reported to contain rotenone. 759.
- Lonchocarpus nicou*, see *L. utilis*.
- Lonchocarpus nitidulus*, see *Lonchocarpus floribundus*.
- Lonchocarpus peckholtii* Wawra.  
Used as fish poison. 795.
- Lonchocarpus rariflorus* Mart.  
Roots reported to contain rotenone. 759, 795.
- Lonchocarpus sericeus* H. B. K.  
Roots and leaves reported to contain rotenone. 759.
- Lonchocarpus urucu* Killip and Smith.  
Roots, stems, and leaves reported to contain rotenone. 759, 795.
- Lonchocarpus utilis* A. C. Smith. (*L. nicou* (Aubl.) DC.).  
Roots, stems, and leaves reported to contain rotenone. 759, 795.
- Lonchocarpus valutians* Benth.  
Roots reported to contain rotenone. 759.
- Lonchocarpus violaceus* (Jacq.) H. B. K.  
Used as fish poison. 795.
- Lonchocarpus* spp. (*L. atropurpureus* Benth.? or *L. guatemalensis* Benth.?; *L. hondurensis* Benth.?; *Timbo*; *Timbo branco*; *Timbo pao*; *Bejuco de Gusano*; *red haiari*, cube, etc.; *lanepod*).  
Various species of *Lonchocarpus* used as fish poison; roots contain rotenone, T many insects; T as mothproofing agent. 759, 795, 936P, 937P, 938, 1175, 1179.
- Lonocera japonica* Thunb. (Japanese honeyuckle).  
Exts. were not repellent to Japanese beetle. 933B.
- Lookingglass, venus, see *Specularia perfoliata*.  
Locestrife, purple, see *Lythrum salicaria*.  
Lotus, American, see *Nelumbo lutea*.  
Lousewort, see *Delphinium staphisagria*.  
Lovage, see *Levistium officinale*.  
Luffa sp. (Dish-cloth gourd).  
Acetone ext. of seeds T mosquito larvae. 645.
- Lungwort, common, see *Pulmonaria officinalis*.
- Lupine, see *Lupinus aliger*.
- Lupine, sun-dial, see *Lupinus pereansis*.
- Lupinus albus* L.  
Alkaloidal ext. of seeds used for mothproofing purposes. 933B.
- Lupinus angustifolius* L.  
Alkaloidal ext. of seeds used for mothproofing purposes. 933B.
- Lupinus crotalerioides* Mart.  
Used as fish poison. 795.
- Lupinus luteus* L.  
Alkaloidal ext. of seeds used for mothproofing purposes. 933B.
- Lupinus mutabilis* Sweet.  
Used as fish poison. 795.
- Lupinus niger* L. (Lupine).  
Alkaloidal ext. of seeds used for mothproofing. 125P, 933B, 1175, 1176, 1257P, 1258P, 1261P.
- Lupinus pereansis* L. (Sun-dial lupine).  
Exts. from plant were not repellent to Japanese beetle. 933B.
- Lupinus* spp.  
Used as mothproofing agent. 1166P, 1179.
- Lythrum halliiifolium* Mill. (Common matrimony-vine).  
Used as dust T roaches but only ST tent enterpillars; used as stomach poison T grasshoppers; water ext. NT bees. 933.
- Lycoperdon bovista*, see *Calvatia gigantea*.  
*Lycoperdon conocephalum*, see *Calvatia gigantea*.  
*Lycoperdon giganteum*, see *Calvatia gigantea*.  
*Lycopersicon esculentum* Mill. (*L. lycopersicon* Karst.; *Solanum lycopersicon* L.; tomato).  
Tomato foliage may be placed round fruit trees to



- prevent access of insects; infusion of bark serves as insecticide for syringing. 933.
- Lyceopersicon* sp. (Mixture of tomato sap).  
Used as plant injection; effective on infestation of *Eriocoma lanigerum*. 175.
- Lycepedium complanatum* L. (Ground cedar).  
Decoction T lice. 933.
- Lycepedium selago* L. (Fir clubmoss). 933.
- Lycepus virginicus* L. (Betony; bugle weed).  
Acetone ext. of leaves T mosquito larvae; ext. of whole plant NT mosquito larvae. 643A, 645.
- Lycnis ovalifolia* (Wall.) Drude. (*Paris ovalifolia* (Wall.) D. Don.; *Andromeda ovalifolia* Wall.).  
In India young leaves and buds used to kill insects, and an infusion was employed in cutaneous diseases. 933, 933B.
- Lysimachia laevis-gracum* Hance.  
Gave low mortality to several insects. 837.
- Lysimachia nummularia* L. (Moneywort).  
Leaves and flowers, steeped in oil, destroy insects and worms which infest granaries. 933.
- Lysimachia terrestris* (L.) B. S. P. (Swampcandle).  
Exts. were not repellent to Japanese beetle. 933B.
- Lythrum salicaria* L. (Purple loosestrife).  
Exts. were not repellent to Japanese beetle. 933B.
- Mace oil.  
Effective attractant for codling moth. 1423A.
- Macleaya cordata*. (*Bocconia cordata* Willd.; pink plume-poppy).  
Decoction used in Japan as insecticide. 837, 933.
- Maelura pomifera* (Raf.) Schneid. (*Toxylon pomiferum* Raf.; cease-orange).  
Commercial ext. was repellent to Japanese beetle. 933B.
- Maerolobium acaulefolium* Benth.  
Used as fish poison. 795.
- Madhuca butyracea* (Roxb.) Macbride. (*Bassia butyracea* Roxb.).  
Bark used in India as fish poison and as insecticide. 933B.
- Madhuca latifolia* (Roxb.) Macbride. (*Bassia latifolia* Roxb.; mahua; mohwa).  
5% Alc. ext. of stem bark 100% T *Plutella maculipennis*, 70% T *Prodenia litura* and *Crocidolomia bimotula*, and 100% T *Euproctes fraterna*; 5% ext. of leaves 100% T first species, 65% T second, and 100% T third and fourth species; powdered stem bark 80% T *Callosobruchus chinensis*. 933B.
- Madhuca longifolia* (L.) Macbride. (*Bassia longifolia* L.; mowrah meal; mowa-mahua tree).  
Decoction of bark used as remedy for itch; T earthworms; ST larvae of Japanese beetle. 493A, 933B.
- Madhuca* sp. 933.
- Madrado, see *Gliresidia septum*.
- Magnolia virginiana* L. (Sweetbay).  
Exts. from fresh leaves were more or less repellent to Japanese beetle. 933B.
- Magonia glabrata* St. Hil.  
Stems and leaves used as fish poison. 795.
- Magonia pubescens* St. Hil.  
Roots, leaves, bark, and seeds used as fish poison. 795.
- Mahonia aquifolium* Nutt. (*Berberis aquifolium* Pursh.; Oregon hollygrape).  
Infusion of roots effective against fly larvae but was inefficient. 933.
- Mahua, see *Madhuca latifolia*.
- Malaianthemum canadense* Desf. (*Unifolium canadense* (Desf.) Greene)  
Exts. were repellent to Japanese beetle. 933B.
- Maidenhair, southern, see *Adiantum capillus-veneris*.
- Malabar-nut, see *Justicia adhatoda*.
- Mallotus philippinensis* (Lam.) Muell. Arg. (Kamala tree; monkeyface tree).  
Acetone ext. of hairs of capsules T mosquito larvae. 645
- Malus sylvestris* Mill. (Apple).  
Oil strongly attractive to cockroaches and is attractive bait. 933B.
- Mammes americana* L.  
Exts. of roots, shoots, and branches of plant from Trinidad ST; exts. of plant from West Indies not sufficiently T bean aphid to warrant further investigation. 933B.
- Mangifera indica* L. (Mango).  
Gum resin, mixed with lime juice or oil, used as cure for scabies, and powdered flowers used for fumigating mosquitoes. 933B.
- Manihot dulcis* (Gmel.) Pax. (Sweet cassava).  
Tapioca was employed as constituent of an adhesive composition which might be used for mothproofing. 933B.
- Manihot esculenta* Crantz.  
Used as fish poison. 795.
- Maple, Norway, see *Acer platanoides*.
- Maple, red, see *Acer rubrum*.
- Maple, rock, see *Acer saccharum*.
- Maple, silver, see *Acer saccharinum*.
- Maple, sugar, see *Acer saccharum*.
- Maple, sycamore, see *Acer pseudo-platanus*.
- Maravitti tree, see *Hydnocarpus wightianus*.
- Margarita, see *Karwinskia humboldtiana*.
- Margassa oil.  
NT *Lucilia cuprina*, *L. sericata*, and *Calliphora stygia*. 918.
- Marguerite, see *Chrysanthemum frutescens*.
- Marigold, African, see *Tagetes erecta*.
- Marigold, corn, see *Chrysanthemum segetum*.
- Marigold, French (harmony), see *Tagetes patula*.
- Marigold, marsh, see *Caltha palustris*.
- Marigold, yellow pigmy, see *Tagetes patula*.
- Marjoram, sweet, see *Origanum vulgare*.
- Marrubium vulgare* L. (Hearhound).  
Water ext. of whole plant 0-30% T mosquito larvae. 643A.
- Maruta cotula*, see *Anthemis cotula*.
- Marvel of Peru, see *Mirabilis jalapa*.
- Masterwort, see *Imperatoria ostruthium*.
- Mastic tree, see *Pistacia lentiscus*.
- Matico, see *Piper elongatum*.
- Matricaria chamomilla*. (*Chrysanthemum chamomilla* Bernh.; *Chamomilla vulgaris* S. F. Gray; *C. officinalis* Koch, Hungarian chamomile, German false-chamomile).  
Water ext. of leaves and stem 5% T mosquito larvae; acetone ext. of whole plant T mosquito larvae; flower heads T several species of insects, similar to pyrethrum 643A, 645, 933.
- Matricaria discoides*, see *M. matricarioides*.
- Matricaria inodora* L. (Scentless false-chamomile).  
Flowers have benumbing effect on flies. 933.
- Matricaria matricarioides* (Less.) Porter. (*M. discoides* DC; *M. suaveolens* Buchenau).  
Decoction NT *Malacosoma neustria*. 933.
- Matricaria parthenium*, see *Chrysanthemum parthenium*.
- Matricaria suaveolens*, see *M. matricarioides*.
- Matrimony-vine, common, see *Lycium halimifolium*.
- Mayapple, common, see *Podophyllum peltatum*.
- Mayweed, see *Anthemis cotula*.
- Meadowrus, see *Thalictrum polygamum*.
- Medeola virginiana* L. (Cucumber root).  
Exts. were not repellent to Japanese beetle. 933B.
- Medicago lupulina* L.  
Gave low mortality to several species of insects. 837.
- Meibomia laburnifolia* (Poir.) Kuntze. (*Desmodium laburnifolium* DC).  
Leaves used as insecticide. 933.
- Meibomia triflora*, see *Desmodium triflorum*.
- Melaleuca leucadendron* L. (Also other species of *Melaleuca*, oil of capuput).  
Oil T *Lucilia cuprina* larvae. 849, 933B.
- Melampyrum lineare* Desr. (Cowwheat).  
Exts. were not repellent to Japanese beetle. 933B.
- Melanthium muscatellinum*, see *Amauranthium muscatellinum*.
- Melanthium virginale* L. (Bunchflower).  
Roots used as fly poison. 933.
- Melia azadirachta* L. (*Asadiraachta indica* Juss.; *Asedarach deleteria* Medic.; nia tree).  
Furniture made from its wood is not attacked by insects. 933
- Melia azadirachta* L. (*Asedarach commelin* Medic.; *A. odoratum* Noronha.; chinaberry).  
Decoction of berries prevents depredations of black grub or cutworm; poultices of flowers T lice; decoctions and alc. exts. from leaves, twigs, and berries effective against cotton caterpillars, but failed to be efficient. 933.

- Melia dubia* Cav. (*M. superba* Roxb.; *M. robusta* Roxb.).  
Juice of green fruit, with sulfur and curds, used as application for scabies and sores infested with maggots. 933B.
- Melilotus alba* Desv. (White sweetclover).  
Exts. were not repellent to Japanese beetle. 933B.
- Melilotus altissimus* Thuill. (Clover).  
Mosquitoes in Egypt fed on juice of highly scented blossoms which contain coumarin. This might be responsible for immunity from malaria in these areas. 933B.
- Melilotus officinalis* (L.) Lam. (Yellow sweetclover).  
Saturated soln. of coumarin in sugar soln. NT housefly; natives of Bessarabia kept their houses free from moths by keeping bunches of this plant in all rooms. 933B.
- Melissis minutiflora* Beauv. (Melasses grass).  
Whole plant reported insecticidal in East Africa; fresh leaves are covered with glandular hairs, which exude viscid oil, said to repel mosquitoes and tsetse flies; probably useful as tick eradicator. 933B.
- Melissa officinalis* L. (Balm).  
Acetone and water ext. of leaves and stem NT mosquitoes. 643A.
- Melodorum latifolia* (Bl.) Hook. and Thoms. (*Uvaria latifolia* Brum).  
Exts. of roots NT bean aphids. 933B.
- Melon. (Honey dew).  
Acetone ext. of seeds T mosquito larvae. 645.
- Menispermum canadense*. (Yellow parilla).  
Acetone ext. of root 35% T mosquito larvae; less toxic to aphids than nicotine sulfate, but as stomach poison and repellent for some other insects it is more effective. 642A, 1144.
- Menispermum cocculus*, see *Anamirta cocculus*.  
*Menispermum lacunosum*, see *Anamirta cocculus*.
- Mentha arvensis* L. (Field mint).  
Exts. were not repellent to Japanese beetle. 933B.
- Mentha canadensis* L. (American wild mint).  
Exts. were not repellent to Japanese beetle. 933B.
- Mentha longifolia* (L.) Huds. (*M. sylvestris* L.).  
Tested in Russia against red spider and cotton aphid. Toxicity increased with concentration, and oil was repellent to aphids. 933B.
- Mentha piperita* L. (Peppermint).  
Acetone ext. of leaves, stems, and spikes 10% T mosquito larvae; oil *ST Lucilia cuprina* larvae. 645, 643A, 849.
- Mentha pulegium* L. (European pennyroyal; *Pulegium vulgare* Mill.). 933.
- Mentha spicata* L. (*M. viridis* L.; spearmint).  
Oil repellent to screwworm; exts. were not repellent to Japanese beetle; exts. of leaves and stems NT mosquito larvae; alch. ext. NT cotton caterpillars. 643A, 849, 933.
- Mentha sylvestris*, see *M. longifolia*.  
*Mentha viridis*, see *M. spicata*.
- Menyanthes trifoliata*. (Buckbean).  
Acetone and water ext. of leaves NT mosquito larvae. 643A.
- Merrybells, wood, see *Uvularia perfoliata*.
- Morus ferrea* L. (*M. speciosa* Choisy.).  
Oil of seeds found useful in treatment of itch. 933B.
- Mgagana, see *Agauria salicifolia*.
- Mhayo, see *Dolichos pseudopachyrhizus*.
- Mitchella champaca* L. (*M. aurantiaca* Wall.).  
Flowers useful in leprosy, boils, and itch. 933B.
- Microsechium helleri* (Peyr.) Cogn.  
Useful in destroying lice and underground insects. 933.
- Mignonette, see *Rosa odorata*.
- Milkweed, see *Asclepias syriaca*.
- Milletia auriculata* Baker.  
Root used as insecticide. 933.
- Milletia dura* Dunn.  
Roots, stems, and seeds reported to contain rotenone. 759.
- Milletia ferruginea* (Hochst.) (Berbera).  
Stems, petioles, and leaves reported to contain rotenone. 759.
- Milletia lehtyoctoma* Bureau and Franch.  
Seeds reported to contain rotenone. 759.
- Milletia laurentii* deWilk.  
Roots, stems, and leaves reported to contain rotenone. 759.
- Milletia mannii* Baker.  
Roots, stems, and leaves reported to contain rotenone. 759.
- Milletia aifida* Benth.  
Leaves and seeds used for insect control. 837.
- Milletia pasycarpa* Benth.  
Seeds far more toxic than roots, stems being least toxic; alch. ext. of roots T silkworm. 759, 837.
- Milletia placida* (Roxb.) Wight.  
Powder of bark and flowers used as fish poison and insecticide in India. 933B.
- Milletia pulchra* (Benth.) Kurz.  
Gave low mortality to several insects. 837.
- Milletia reticulata* Benth.  
Roots reported to contain rotenone. 759.
- Milletia toowania* Hayata.  
Roots reported to contain rotenone. 759.
- Milletia ussarensis* Taub. (*Derris taiwaniana* Matsum.).  
Seeds reported to contain rotenone. 759.
- Milletia versicolor* Welw.  
Roots, stems, and leaves reported to contain rotenone. 759.
- Milletia* sp.  
Stems NT several species of insects. 837.
- Mimosa cinerea*, see *Dichrostenos cinerea*.
- Mimulus* sp.  
Acetone ext. of leaves and stems NT mosquito larvae. 645.
- Mint, American wild, see *Mentha canadensis*.  
Mint, field, see *Mentha arvensis*.  
Mint, pepper, see *Mentha piperita*.  
Mint, spear, see *Mentha spicata*.  
Mint, stone, see *Cuscuta origanoides*.
- Mirabilis jalapa* L. (Marvel of Peru).  
Odor of flowers was said to keep away mosquitoes at night. 933B.
- Mistletoe, American, see *Phoradendron flavescens*.
- Mitchella repens* L. (Partridgeberry).  
Exts. were not repellent to Japanese beetle. 933B.
- Mockorange, sweet, see *Philadelphus coronarius*.
- Moetospoe or Koetospoe.  
Water ext. of wood of moetospoe proved efficient, while water ext. of leaves inefficient against silkworms. 933.
- Mohwa, see *Madhuca latifolia*.
- Mollugo cerviana* Ser.  
Plant mixed with oil made into ointment for scabies and other cutaneous diseases. 933B.
- Mollugo spargula* L.  
Juice of plant applied as remedy for itch and other skin diseases. 933B.
- Momordica charantia* L. (Balsam-pear).  
In India whole plant mixed with cinnamon, pepper, rice, and oil of *Hydnocarpus inebrians* used as ointment for psora, scabies, and other cutaneous diseases. 933B.
- Momordica schimperiana* Steud. (Iru).  
Fruit listed as insecticidal in East Africa. 933B.
- Monarda punctata* L. (Spotted bee-balm).  
Alch. ext. from leaves NT cotton caterpillars. 933.
- Moneywort, see *Lysimachia nummularia*.
- Monkshood, Columbia, see *Asclepias columbiana*.
- Moroballi, see *Cupania* sp.
- Morus* sp. (Mulberry).  
Commercial ext. was not repellent to Japanese beetle. 933B.
- Mosquito plant, see *Ocimum viride*.
- Moss, fir club, see *Lycopodium selago*.
- Moss, haircap, see *Polytrichum juniperinum*.
- Moss, Irish, see *Chondrus crispus*.
- Moss, pearl, see *Chondrus crispus*.
- Moss, salt rock, see *Chondrus crispus*.
- Motherwort, common, see *Leonurus cardiaca*.
- Mowa-mahua tree, see *Madhuca longifolia*.
- Mowrah, see *Bassia longifolia*.
- Msharaka, see *Sesupium ellipticum*.
- Muelleria moniliformis* L. f.  
Bark used as fish poison. 795.
- Mugwort, see *Artemisia vulgaris*.
- Mulberry, see *Morus* sp.



- Mullein, clamping, see *Verbascum phloemoides*.  
Mullein, flannel, see *Verbascum thapsus*.  
Mullein, moth, see *Verbascum blattaria*.  
Mullein, turkey, see *Bromocarpus setigerus*.  
Mullein, wood, see *Verbascum thapsiforme*.  
*Mendocina pseudifera* Baker.  
Roots reported to contain rotenone. 759.  
*Mentzelia sericea* (Willd.) A. Cheval. (*M. suberosa* Benth.; "Sapli").  
Bark, debarked stem, leaf, and root 100% T chrysanthemum aphids; stems (bark) reported to contain rotenone. 759, 1381.  
*Morus alba*, see *Cupressus* sp.  
*Musa sapientum* L. (Banana).  
Oil attractive bait and attractive to cockroaches. 933B.  
*Muskmelon*, see *Cucumis melo*.  
*Mustard*, see *Brassica* spp.  
*Mustard*, black, see *Brassica nigra*.  
*Mustard*, yellow English, see *Brassica hirta*.  
*Myrica carolinensis*, see *M. pensylvanica*.  
*Myrica cerifera* L. (Southern waxmyrtle).  
Bark of root 35% T mosquito larvae. 553A, 643A, 933.  
*Myrica gale* L. (Candleberry myrtle).  
Swedes employed strong decoction to kill bugs and lice, and to cure itch. 933B.  
*Myrica pensylvanica*. (*M. carolinensis* Mill.; northern bayberry).  
Exts. were not repellent to Japanese beetle. 933B.  
*Myrica peregrina* (L.) Kunze. (*Comptonia peregrina* (L.) Coult.; sweetfern).  
Acetone ext. of leaves and stems NT mosquito larvae; exts. were not repellent to Japanese beetle. 645, 933B.  
*Myristica fragrans* Houtt. (Common nutmeg).  
Oil T *Lucilia cuprina* larvae; odor of nutmeg fatal to mosquitoes if air is saturated. 849, 933.  
*Myristica* sp.  
Powders and volatile constituents T ants. 643A.  
*Myrtle*, candleberry, see *Myrica gale*.  
*Nami*, see *Dioscorea cylindrica*.  
*Nao-yang-wha*, see *Rhododendron kuanwellianum*.  
*Narcissus pseudonarcissus* L. (Common daffodil).  
Exts. were not repellent to Japanese beetle. 933B.  
*Nasturtium*, common, see *Tropaeolum majus*.  
*Nauclaea cordifolia*, see *Adina cordifolia*.  
*Neocotone*.  
Water ext. of leaves T silkworms. 933.  
*Nelumbo lutea* (Willd.) Pers. (*Nelumbium luteum* Willd.; American lotus).  
T cockroaches. 933.  
*Neorautanisia filifolia* (Benth.) C. A. Sm. (*Rhynchosia filifolia* Benth.).  
Alch. and aqueous exts. of ground roots T bean aphid; 1% alch. ext. 100% T aphids. 933B.  
*Nepeta oleria* L. (Catnip).  
Acetone ext. of leaves and stems 30% T mosquito larvae; oil T *Lucilia cuprina* larvae. 643A, 849.  
*Nepeta hederacea*, see *Gleasonia hederacea*.  
*Nerium indicum* Mill. (*N. odorum* Soland; sweet oleander; kaner).  
Water exts., macerated juices, and dusts of leaves tested against citrus psyllas, aphids, lacewing weevil grubs, and adult beetles. Ext. roots more poisonous than leaves; 5% alch. ext. leaves 80% T *Prodenia litura*, *Euproctis fraterna*, and *Perilebia ricini*, and 70% T *Crocidolomia binotata*. 933B.  
*Nerium oleander* L. (Common oleander).  
Bark used for the destruction of rats and insects; NT aphids. 933.  
*Nettle*, dead, see *Lamium angustifolium*.  
*Neurolepis lobata* (L.) E. Br. (Erb-a-pique).  
Exts. of leaves and stems of this fish poison plant from Antigua ST bean aphid. 933B.  
*Nicotiana physalodes* Pers. (*Atropa physalodes* L.; *Physalodes peruvianum* (Mill.) Kuntze; *P. physalodes* Britton; Peruvian groundcherry).  
Used as fly poison. 933.  
*Nicotiana glauca* Graham. (Tree tobacco).  
Decoction of leaves with soap ST nasturtium aphids, while powdered leaves NT. 933.  
*Nicotiana rustica* L. (*Artem. tobaccae*).  
Effective stomach poison against *Aphis rosae* var. 933.  
*Nicotiana sylvestris* Spag. and Comen.  
This weed contains nicotine, an alkaloid of proved insecticidal value and of greater potency than nicotine for control of certain insects. 933B.  
*Nicotiana tabacum* L. (Common tobacco).  
T chrysanthemum and nasturtium aphids and *Aphis pomi*. 933.  
*Nicotiana* sp. (Mixture of aqueous tobacco).  
Ext. and 1% boric acid used as injection against aphids; used as mothproofing agent; NT clothes moth (68). 43 60, 175, 1077, 1176, 1268, 1479.  
*Nicotiana* spp. (Mixture of tobacco sap).  
Used as plant injection; has some effect on infestation of *Eriosoma lanigerum*. 175.  
*Nigella arvensis* L. (Fennel flower).  
Natives of Hindustan sprinkled seeds among clothes as preservative against destructive insects; exts. of dried seeds more or less repellent to Japanese beetle; alch. exts. and water suspensions NT caterpillars. 933B.  
*Nightshade*, bitter, see *Solanum dulcamara*.  
*Nightshade*, black, see *Solanum nigrum*.  
*Nims quassoides*, see *Pieris quassoides*.  
*Nin tree*, see *Melia azadirachta*.  
*Niota comarum*, see *Samadera indica*.  
*Niota pentapetala*, see *Samadera indica*.  
*Niquitau* (niquivau), see *Eleocharis floribunda*.  
*Nisolia fruticosa* Jacq.  
Used as fish poison. 795.  
*Nochi*, see *Vitex negundo*.  
*Numurdi*, see *Blumea lacera*.  
*Nuphar advena* (Ait.) Ait. f. (*Nymphaea advena* Ait.; spatterdock).  
Exts. were not repellent to Japanese beetle. 933B.  
*Nutmeg*, see *Myristica* spp.  
*Nutmeg*, common, see *Myristica fragrans*.  
*Nymphaea advena*, see *Nuphar advena*.  
*Nyssa sylvatica* Marsh. (Tupelo).  
Acetone ext. of leaves 60% T mosquito larvae; exts. were not repellent to Japanese beetle. 933B.  
Oak, African, see *Oldfieldia africana*.  
Oak, black, see *Quercus velutina*.  
Oak, common red, see *Quercus rubra*.  
Oak, scarlet, see *Quercus coccinea*.  
Oak, white, see *Quercus alba*.  
*Ocimum basilicum* L. (Sweet-basil; common basil).  
Oil 95-100% T mosquito larvae; acetone ext. of leaves and stems T mosquito larvae; whole plant NT as contact poison to mosquito larvae. 643A, 645, 701P.  
*Ocimum caesium* Sims.  
5% Alch. ext. of whole plant 50% T caterpillars; T fleas. 933B.  
*Ocimum gratissimum*.  
Used in Haiti as general insecticide. 933B.  
*Ocimum sanctum* L. (Sacred basil).  
Dried leaves were effective means of dislodging maggots in India. 933B.  
*Ocimum viride* Willd. (Basil; mosquito plant).  
Believed to be mosquito repellent, but evidence was not convincing. 933B.  
*Oenanthe crocata* L.  
Alch. exts. of roots T larvae of *Pieris brassicae*. 933B.  
*Oldfieldia africana* Benth. and Hook. f. (African oak).  
Bark and leaves used in Liberia as remedies for hair lice and crab lice. 933B.  
Old man, see *Artemisia abrotanum*.  
*Olea europaea* L. (Olive).  
Oil recommended in elimination of head lice; sulphated olive oil T as mothproofing agent. 36, 933B, 980P, 1176.  
Oleander, common, see *Nerium oleander*.  
Oleander, sweet, see *Nerium indicum*.  
Olibanum tears, white.  
Acetone ext. of whole plant NT mosquito larvae. 645.  
Olive, see *Olea europaea*.  
Onion, garden, see *Allium cepa*.  
Onion, sea, see *Urginea maritima*.  
*Oreoclea sensibilis* L. (Sensitive fern).

- Acetone* ext. of rhizome 10% T mosquito larvae. 643A.
- Opomea purpurea* (L.) Roth.  
Decoctions of fresh leaves and young shoots used against aphids, scale insects, caterpillars, and flea beetles. 933B.
- Oxantia humifusa* Raf. (Pricklypear).  
Exts. were not repellent to Japanese beetle. 933B.
- Orange, see *Citrus sinensis*.
- Orange oil, see *Phenacoccus gossypii*.
- Orchid, white fringe-, see *Habenaria blephariglossa*.
- Oreodaphne californica*, see *Umbellularia californica*.
- Origanum hirtum* Link.  
Oil was of no value as repellent or attractant to screwworm. 933B.
- Origanum vulgare* L. (Sweet marjoram).  
*Acetone* ext. of whole plant 5% T mosquito larvae; oil 50% T mosquito larvae at 80 p.p.m. and 95% T at 100 p.p.m.; oil T *Lucilia cuprina* larvae. 643A, 649.
- Osmacarpum glabrum* T. and B.  
Reported to contain rotenone. 759.
- Ornithogalum umbellatum* L. (Star-of-Bethlehem).  
Exts. were not repellent to Japanese beetle. 933B.
- Orotium aquaticum* L. (Golden club).  
Exts. from plants were not repellent to Japanese beetle. 933B.
- Orris-root, see *Iris florentina*.
- Orris-root, German, see *Iris germanica*.
- Oryza sativa* L. (Rice).  
Oil was attractive to oriental cockroach in 35 counts and repellent in 40 counts. 933B.
- Osage-orange, see *Maulura pomifera*.
- Osebeckia crinita* Benth.  
Gave low mortality to several species of insects. 837.
- Osmunda cinnamomea* L. (Cinnamon fern).  
*Acetone* ext. of rhizome NT mosquito larvae. 643A.
- Osmunda regalis* L. (Flowering fern).  
*Acetone* ext. of rhizome NT mosquito larvae. 643A.
- Ostrya virginiana*. (Ironwood).  
*Acetone* ext. of wood 65% T mosquito larvae. 643A.
- Ostrya darrisi* (Gehonika) Dunn. (Bolemba).  
5% Exts. of stems and roots paralyzed 100% of bean aphid, 2% ext. of stems 70%, and of roots 90%, but leaves were NT; no part of plant compared with *Derris elliptica*. 933B.
- Ougenia dalbergioides* Benth.  
Used as fish poison; exts. of leaves and bark NT bean aphid; 5% alc. ext. of stem bark 75% T *Plutella maculipennis*, 80% *Prodenia litura*, and *Crocidoloma binotalis*, and 100% *Euproctis fraterna*; 5% ext. of leaves 100% T first, third, and fourth species, and 90% T second species; powdered stem bark used as dust 60% T beetles, powdered leaves 100% T. 933B.
- Ourocapria gambia*, see *Uncaria gambir*.
- Oxalis stricta* L. (Yellow wood-sorrel).  
Exts. were not repellent to Japanese beetle. 933B.
- Oxydendrum arboreum* (L.) DC. (Sourwood).  
Exts. were not repellent to Japanese beetle. 933B.
- Oxystelma esculentum* (L. f.) R. Br. (*Asclepias rosea* Roxb.).  
Milky sap in combination with turpentine said to be valuable cure for itch in Sind, India; milky sap used as wash for ulcers. 933B.
- Pachygona ovata* (Poir.) Miers.  
Used as insecticide in India. 933B.
- Pachyrhizus angulatus* Rich.  
Ground seeds ST caterpillars of *Prodenia litura*. 933B.
- Pachyrhizus erosus* (L.) Urban. (Yam bean). T many insects. 627, 759, 795, 837.
- Pachyrhizus tuberosus* (Lamb.) Spreng.  
Tubers and beans contain poisonous resin which is active fish poison; seeds, in decoction or powder form, T vermin. 795, 933.
- Pagoda-tree, Japanese, see *Sophora japonica*.
- Paipu, see *Stemona tuberosa*.
- Palaquium* sp.  
Seeds MT milkworm larvae and ST other insects. 837.
- Palm, carnauba, see *Copernicia caribaea*.
- Palm, sago, see *Cycas circinalis*.
- Palmetto, saw, see *Serenoa repens*.
- Pandanus tectorius* Parkins. (*P. odorifera* (Forst.) Lyons; breadfruit tree).  
Flowers placed among clothes to repel moths and similar insects, as well as perfume them. 933B.
- Pangium edule* Reinw.  
Exts. from bark and leaves NT tent caterpillars. 933.
- Panicum antidotale* Retz. (*P. subalbidum* Kunth).  
In India smoke of burning plant used for fumigating wounds. 933B.
- Pansy, common, see *Viola tricolor*.
- Papaver somniferum* L. (Opium poppy).  
Pure tincture of opium, aqueous soln. of hydrochlorate of morphine, and aqueous soln. of codeine, each mixed with honey and fed to ants, had no effect on them; plants dipped in 300 cc. of water containing 0.3 gm. of morphine were fed to caterpillars, 80% T; 30% T body louse, but 77% of eggs did not hatch; narcotine NT bean aphid. 933B.
- Papaver* spp. (Poppy).  
*Acetone* ext. of flowers and stems T mosquito larvae; *acetone* ext. of seeds of Dutch poppy T mosquito larvae. 645.
- Papaw, see *Asimina* sp.
- Parietaria pensylvanica* Muhl. ex. Willd. (Pellitory).  
Exts. were not repellent to Japanese beetle. 933B.
- Parilla, yellow, see *Menispermum canadense*.
- Parosela barbata*, see *Dalea vulneraria*.
- Paraley, see *Petroselinum crispum*.
- Paranip, see *Pastinaca sativa*.
- Paranip, water, see *Sium suave*.
- Parthenocissus quinquefolia* (L.) Planch. (*Hedera quinquefolia* L.; *Vitis hederacea* Willd. (Kew); Virginia creeper).  
Leaves rubbed on infested area of apple tree, a week later tree was entirely free of woolly aphids. 933B.
- Partridgeberry, see *Mitchella repens*.
- Partridge-pea, see *Cassia fasciculata*.
- Pasqueflower, European, see *Anemone pulsatilla*.
- Passiflora incarnata* L. (Passion flower).  
Water ext. of whole plant 5% T mosquito larvae. 643A.
- Pastinaca sativa* L. (Paranip).  
Exts. were not repellent to Japanese beetle. 933B.
- Patchouli, oil of, see *Pogostemon heyneanus*.
- Paullinia alata* G. Don.  
Stems and leaves used as fish poison. 795.
- Paullinia australis* St. Hil.  
Stems and leaves used as fish poison. 795.
- Paullinia carpopodoides* Camb.  
Stems and leaves used as fish poison. 795.
- Paullinia cupana* H. B. K.  
Stems and leaves used as fish poison. 795.
- Paullinia coruru* L.  
Stems and leaves used as fish poison. 795.
- Paullinia elegans* Camb.  
Stems and leaves used as fish poison. 795.
- Paullinia fuscescens* H. B. K.  
Stems and leaves used as fish poison. 795.
- Paullinia macrophylla* H. B. K.  
Stems and leaves used as fish poison. 795.
- Paullinia meliifolia* Juss.  
Stems and leaves used as fish poison. 795.
- Paullinia pinasta* L.  
Ext. of leaves NT citrus aphids, and a 2% concentration 47.5% T aphids; stems and leaves used as fish poison. 795, 933B.
- Paullinia robbinsiana* Camb.  
Stems and leaves used as fish poison. 795.
- Paullinia seminuda* Radlk.  
Stems and leaves used as fish poison. 795.
- Paullinia thalictroides* Juss.  
Stems and leaves used as fish poison. 795.
- Paullinia trigonata* Vell.  
Stems and leaves used as fish poison. 795.
- Peach, see *Prunus persica*.
- Peanut, see *Arachis hypogaea*.
- Pear, balsam, see *Momordica charantia*.
- Pear, common, see *Pyrus* sp.
- Pear, kiefer, see *Pyrus communis*.
- Pear, prickly, see *Oxantia humifusa*.
- Peepul tree, see *Ficus religiosa*.

- Peganum harmala* L.  
Roots used to kill lice in hair in India. 933B.
- Pelargonium crispum* L'Her. (Lemon geranium).  
Acetone ext. of leaves NT mosquito larvae. 645.
- Pelargonium odoratissimum* L. (Oil of geranium or of rose geranium).  
T red spider, cotton aphid, and *Lucilia cuprina* larvae. 643A, 849.
- Pelargonium roseale* Willd. (Geranium).  
Acetone ext. of leaves NT mosquito larvae. 643A, 645.
- Pelargonium* spp. (Geraniums).  
Rose geranium oil repellent to screwworms; flowers more attractive and more toxic to Japanese beetle than foliage; 2% concentration 51 to 80% T common red spider and cotton aphids. 933B.
- Pellitory, see *Parietaria pensylvanica*.
- Peltandra virginica* (L.) Kunth. (Virginia arrow-aram).  
Exts. were not repellent to Japanese beetle. 933B.
- Pencil flower, see *Stylosanthes biflora*.
- Pennyroyal, American, see *Hedeoma pulegioides*.
- Pennyroyal, European, see *Mentha pulegium*.
- Pennyroyal, oil of, see *Hedeoma pulegioides*.
- Pepper, see *Piper* spp.
- Pepper, African or bird, see *Capsicum frutescens*.
- Pepper, black, see *Piper nigrum*.
- Pepper, cayenne, see *Capsicum frutescens*.
- Pepper, common red, see *Capsicum annuum*.
- Pepper, Japanese, see *Zanthoxylum piperitum*.
- Pepper, water-, see *Polygonum hydropiper*.
- Pepper, white, see *Piper album*.
- Pepper, oil of, see *Piper nigrum*.
- Peppergrass, see *Lepidium rudérale*.
- Peppergrass, wild, see *Lepidium virginicum*.
- Peppermint, see *Mentha piperita*.
- Perilla frutescens* (L.) Britton. (Perilla).  
One of constituents of a patented insecticide was dried ground parts of this plant. 933B.
- Pericaria hydropiper*, see *Polygonum hydropiper*.
- Pernicary, see *Polygonum* sp.
- Perisimmon, common, see *Diospyros virginiana*.
- Peruvian bark, see *Cinchona officinalis*.
- Petit-grain, oil of, see *Citrus* sp.
- Petiveria alliacea* L.  
Used in Haiti, Nicaragua, and Central America as insecticide against bedbugs and plant lice. 933B.
- Petiveria tetrandra* Gomes.  
Used as fish poison. 795.
- Petroselinum crispum* (Mill.) Nym. (*P. hortense* Hoffm.; parsley).  
Oil MT as repellent to oriental cockroach and *Lucilia cuprina* larvae; acetone ext. of leaves and stems NT mosquito larvae. 645, 849, 933B.
- Petunia hybrida* Vilm. (Common petunia).  
Exts. were not repellent to Japanese beetle. 933B.
- Petunia* sp. 933.
- Peucedanum ostruthium* L. (*Imperatoria ostruthium* L.; master wort).  
Exts. were not repellent to Japanese beetle. 933B.
- Peumus boldus* Mol. (Boldo).  
Exts. were not repellent to Japanese beetle. 933B.
- Phaseolus lathyroides* L.  
Seeds used as fish poison. 795.
- Phellodendron amurense* Rupr. (Amur cork or velvet tree).  
Fruit T mosquito larvae, housefly, and codling moth. 27, 643A, 759.
- Phellodendron lavalli*.  
Fruit has insecticidal properties. 933B.
- Phenacoccus gossypii*. (Orange oil).  
25% T Mexican mealy bugs. 265.
- Philadelphus coronarius* L. (Sweet mockorange).  
Alch. ext. NT cotton caterpillars. 933.
- Phlox, garden, see *Phlox paniculata*.
- Phlox, moss, see *Phlox subulata*.
- Phlox paniculata* L. (Garden phlox).  
Exts. were not repellent to Japanese beetle. 933B.
- Phlox subulata* L. (Moss phlox).  
Exts. were not repellent to Japanese beetle. 933B.
- Phoradendron flavescens* (Pursh.) Nutt. (American mistletoe).  
Exts. were not repellent to Japanese beetle. 933B.
- Phyllanthus acuminatus* Vahl.  
Used as fish poison. 795.
- Phyllanthus brasiliensis* (Aubl.).  
Used as fish poison. 795.
- Phyllanthus cladetrichus* Muell.  
Used as fish poison. 795.
- Phyllanthus esenmi* Sw.  
Used as fish poison. 795.
- Phyllanthus ichthyomethine* Rusby.  
Leaves used as fish poison. 795.
- Phyllanthus niruri* L.  
Leaves (bruised) were applied for scabies in India. 933B.
- Phyllanthus piscatorum* H. B. K.  
Used as fish poison. 795.
- Phyllanthus simplex* Retz.  
In India fresh leaves bruised and mixed with buttermilk made wash to cure itch in children. 933B.
- Phyllanthus urisaria* L.  
Used as fish poison. 795.
- Phyllitis scolopendrium* (L.) Newman. (Hartstongue).  
Exts. were not repellent to Japanese beetle. 933B.
- Physalis angulata* L. (Cut-leaved ground cherry).  
Exts. of entire plant from British Guiana NT bean aphid. 933B.
- Physalodes peruvianum*, see *Nieandra physalodes*.
- Physostigma venenosum* Balf. (Calabar bean).  
Eserine (physostigmine), alkaloid in calabar beans, very poisonous to higher animals; physiological action similar to that of nicotine; 0.2 and 0.1% emulsion 100% and 56.6% T bean aphids; semen *physostigmatis* NT caterpillars of *Prodenia litura*. 933B.
- Phytolacca acinosa* Roxb.  
Dust of roots T Mexican bean beetle, but fairly low mortality to other insects. 837.
- Phytolacca americana* L. (*P. decandra* L.; common pokeberry).  
Root, fresh or dried, NT cockroaches; MT cotton caterpillars; NT fly larvae. 933.
- Picea abies* (L.) Karst. (Norway spruce).  
Acetone and water exts. of leaves and small branches NT mosquito larvae. 643A.
- Picea orientalis* (L.) Link. (Oriental spruce).  
Exts. were not repellent to Japanese beetle. 933B.
- Pickereelweed, see *Pontederia cordata*.
- Picrosma pentandra* Swartz.  
Used in Haiti as general insecticide. 933B.
- Picrosma aulanthoides*, see *Picrosma quassioides*.
- Picrosma exelsa* Planch. (*Aeschion exelsa* (Swartz) Kuntze; *Simaruba exelsa* DC; *Quassia exelsa* Swartz; *Picrosma exelsa* Lindl.; Jamaica quassia; bitterwood).  
Wood used as insecticide; NT clothes moth. 42, 933, 1024, 1176, 1268, 1469.
- Picrosma napaleensis* Benn.  
Powdered leaves and twigs used to kill mosquito larvae in Assam, India. 933B.
- Picrosma quassioides* (Ham.) Bennett. (*P. aulanthoides* Planch.; *Nyma quassioides* Ham.).  
Decoction of bark T lice. 933B.
- Pieris japonica* (Thunb.) D. Don. (Asebo; asemi).  
Used as insecticide in Japan. 933B.
- Pieris ovalifolia*, see *Lyonia ovalifolia*.
- Pignut, see *Carya glabra*.
- Pigweed, see *Amaranthus retroflexus*.
- Pigwack, see *Chondrus crispus*.
- Pilocarpus jaborandi* Holmes. (Jaborandi).  
Powdered leaves ST fly larvae. 933.
- Pimenta officinalis* Lindl. (*P. pimenta* Karst.; *P. vulgaris* Lindl.; allspice).  
Powdered allspice NT bedbugs, roaches, clothes moths, carpet beetles, and dog flea; acetone ext. of dried unripe berries NT mosquito larvae; oil of leaves T *Lucilia cuprina* larvae. 42, 645, 849, 933, 1024, 1176, 1268.
- Pimenta racemosa* (Mill.) Moore. (*P. (Myrica) acris*; bayrum tree).  
Oil of leaves (50 p.p.m.) 100% T mosquito larvae and (25 p.p.m.) 55% T; 99-80% T *Lucilia cuprina* larvae and other insects. 643A, 849, 933B, 1045P, 1179.
- Pimpinella, see *Pimpinella saxifraga*.
- Pimpinella anisum* L. (Spanish anise).  
Acetone ext. of seeds T mosquito larvae; powder and seeds NT roaches; oil T *Lucilia cuprina* larvae and gnats. 645, 849, 933, 1045P, 1179.

- Pimpinella suffraga* L. (*Pimpinella*).  
 Exts. from dry rhizomes and roots more or less repellent Japanese beetle. 933B.
- Pine, see *Pinus longifolia*.  
 Pine, pitch, see *Pinus rigida*.  
 Pine, Scotch, see *Pinus sylvestris*.  
 Pine, white, see *Pinus strobus*.  
 Pine oil, see *Pinus* sp.  
 Pines, see *Pinus* spp.  
 Pine needles, oil of, see *Pinus sylvestris*.  
 Pineapple, see *Ananas comosus*.  
*Pinguicula vulgaris* L. (Butterwort).  
 Juice of leaves T lice. 933B.
- Pink, Maryland, see *Spigelia marilandica*.  
 Pink, swamp, see *Halenia bullata*.  
*Pinus longifolia* Roxb. (Pine).  
 In India crude oleoresin useful in preparation of plaster, ointments, and pastilles for fumigations; turpentine oil used as remedy for mange in horses; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide; turpentine T *Lyctus* beetles and emulsion NT wireworms. 26, 933B, 1396.
- Pinus rigida* Mill. (Pitch pine).  
 Exts. were not repellent to Japanese beetle. 933B.
- Pinus strobus* L. (White pine).  
 Water ext. of needles 10% T mosquito larvae. 643A.
- Pinus sylvestris* L. (Scotch pine).  
 Acetone ext. of needles 25% T mosquito larvae; oil T as mothproofing agent. 297P, 643A, 878P, 1176, 1179.
- Pinus* spp. (Pines).  
 T cockroach, Colorado potato beetle, Mexican bean beetle eggs, and as mothproofing agent; NT as contact spray to several species of insects. 71, 78, 265, 297P, 1176, 1179.
- Pinus* spp. (Pines).  
 Exts. from needles were repellent to Japanese beetle; certain combinations of fractions of pine oils, when sprayed on bark of rustic furniture and log cabins made of white cedar, were very effective in killing larvae of wood borer; pine oil emulsion with nicotine sulfate T *Aphrophora parallela*, but summer oil with nicotine sulfate gave only partial control. 933B.
- Pinkerbloom, see *Azalea nudiflora*.  
*Piper aduncum* L.  
 Used in Haiti as insecticide, particularly T ants in seed beds. 933B.
- Piper album* Vahl. (White pepper).  
 NT *Prodenia litura*. 933B.
- Piper cubeba* L. fil. (Cubeb).  
 Acetone ext. of berries T mosquito larvae; 19-0% T *Lucilia cuprina* larvae. 643A, 645, 849.
- Piper elongatum* Vahl. (Matico).  
 Exts. were not repellent to Japanese beetle. 933B.
- Piper nigrum* L. (Black pepper).  
 Strong ext. T cotton caterpillars; acetone ext. of dried berries T mosquito larvae; alch. ext. black pepper, used as repellent, NT *Tineola biselliella* and *Attagenus piceus* (42, 739, 1024, 1268, 1479); T clothes moths (327P, 331P, 874P, 1077, 1176); oil 19-0% T *Lucilia cuprina* larvae. 42, 327P, 331P, 645, 739, 849, 874P, 933, 936P, 1024, 1077, 1175, 1176, 1268, 1479.
- Pipisewa, common, see *Chimaphila umbellata*.  
*Piranha trifoliata* Baill.  
 Used as fish poison. 795.
- Piscidia carthaginensis* Jacq.  
 Used as fish poison. 795.
- Piscidia piscipula* Sarg. (*P. erythrina* L.; *Ichthyomethia piscipula* (L.) Hitchc.; Jamaica fish poison).  
 Powdered bark T fly larvae; roots and stems (inner bark) contain rotenone. 759, 933.
- Pistacia lentiscus* L. (Mastic tree).  
 Mastic gum, with oils, unstable as emulsifier. 933B.
- Pistia stratiotes* L. (Waterlettuce).  
 In India plant was reported to destroy bugs that infested a jail. 933B.
- Pithecellobium elliptica* Hask.  
 Exts. of leaves and bark of this fish poison plant from Malaya ST bean aphid. 933B.
- Pituri, see *Dabolsia hopwoodii*.  
*Plasidura*, see *Biomesa curita*.
- Plane, American, see *Platanus occidentalis*.  
 Plane, oriental, see *Platanus orientalis*.  
*Plantago lanceolata* L. (Buckhorn plantain).  
 Exts. were not repellent to Japanese beetle. 933B.
- Plantago major* L. (Common plantain).  
 Exts. were not repellent to Japanese beetle. 933B.
- Plantago* sp.  
 Acetone ext. of seeds T mosquito larvae. 645.
- Plantain, buckhorn, see *Plantago lanceolata*.  
 Plantain, common, see *Plantago major*.  
*Platanus occidentalis* L. (American plane tree).  
 Acetone ext. leaves 5% T mosquito larvae. 643A.
- Platanus orientalis* L. (Oriental plane tree).  
 Acetone ext. leaves 20% T mosquito larvae. 643A.
- Plectranthus rugosus* Wall.  
 In India plant used as bedding to keep off fleas. 933B.
- Pleurisy, true, see *Asclepias tuberosa*.  
 Plum, jambolan, see *Syzygium cumini*.  
*Plumbago auriculata*, see *P. seylanica*.  
*Plumbago rosea* L. (*P. coccinea* (Lour.) Boiss.).  
 Used for ulcers and scabies. 933B.
- Plumbago seylanica* L. (*P. auriculata* Blume).  
 5% Alch. ext. of roots 100% T caterpillars and 80% T beetle grubs; 5% ext. of stem bark 100% T caterpillars and beetle grubs. 933B.
- Plumeria rubra* L. (*P. acuminata* Roxb.; *P. acutifolia* (Poir.) Woodson; Mexican frangipani).  
 In India juice mixed with sandalwood oil and camphor was employed as cure for itch; sap mixed with coconut used as remedy for itch. 933B.
- Podophyllum emodi* Wall. ex. Hook. and Thomas.  
 Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Podophyllum peltatum* L. (Common mayapple).  
 NT cotton caterpillars. 933.
- Pogogyne parviflora* Benth.  
 Indians placed culled plants about their houses to drive away fleas. 933.
- Pogostemon heyneanus* Benth. (*P. patchouli* Pellet; patchouli).  
 100% T (100 p.p.m.) mosquito larvae and 85% T (50 p.p.m.); oil 19-0% T *Lucilia cuprina* larvae, and listed as insecticide, particularly to exterminate moths. 61P, 643A, 849, 1176, 1366P.
- Pokeberry, common, see *Phytolacca americana*.  
*Polygala senega* (Senega).  
 Acetone ext. of root 10% T mosquito larvae. 643A.
- Polygonatum biflorum* (Walt.) Ell. (Hairy solomon-seal).  
 Exts. were not repellent to Japanese beetle. 933B.
- Polygonatum commutatum* Dietz. (Great solomon-seal).  
 Exts. were not repellent to Japanese beetle. 933B.
- Polygonum acre*, see *P. punctatum*.  
*Polygonum auberti*. (Fleeco vine).  
 Foliage T Japanese beetle. 643A.
- Polygonum fasciculatum*.  
 Plant contains saponin which was used in \_\_\_\_\_ as vermicide and fish poison; juice ST mosquito larvae. 933B.
- Polygonum hispidum*, see *Polygonum orientale*.  
*Polygonum hydropiper* L. (*Persicaria hydropiper* Opis.; water-pepper).  
 T flies. 933.
- Polygonum nodosum* Pers.  
 Low mortality to several species of insects. 837.
- Polygonum orientale* L. (*P. hispidum*).  
 Used to cure skin diseases of dogs and as insecticide; whole plant used as fish poison. 795, 933B.
- Polygonum pennsylvanicum* L. (Smartweed).  
 NT horn fly. 933.
- Polygonum punctatum* Ell. (*P. acre* H. B. K.).  
 Used to cure skin diseases of dogs and as insecticide in Guatemala. 933B.
- Polygonum* sp. (Panicary).  
 Decoction repellent to grain weevils in France; found of insecticidal value against certain insects in South China. 933B.
- Polyporus officinalis*, see *Fomes officinalis*.  
*Polystichum acrostichoides*. (Christmas fern).  
 Acetone ext. of rhizome NT mosquito larvae. 643A.
- Polytrichum juniperinum* Willd. (Haircap moss).  
 Exts. were not repellent to Japanese beetle. 933B.
- Pomegranate, see *Punica granatum*.  
 Pond-apple, see *Annona glabra*.

*Pongamia pinnata* (L.) W. F. Wight. (*P. glabra* Vent.; *Galeodendron indicum* Roeb.; hogmay).

In India fixed oil was prepared from seeds, which was used for itch; MT aphids; exts. of powdered root bark 15-30% T leafhopper, 5% alesh. ext. of roots 10% T *Prodenia litura*, and 80% T *Phytella maculipennis*; 10% ext. 100% T *P. litura*; 3% ext. 100% and a 3% ext. 80% T *Euproctis fraterna*; spraying with hogmay oil-resin soap T several species of mango hoppers and scale insects and against lepidopterous larvae; NT nasturtium aphids. 933, 933B.

*Pentstemon cordata* L. (Pikerweed).

Ext. were not repellent to Japanese beetle. 933B.

Poor-robin-plantain, see *Erigeron pulchellus*.

Poplar, black, see *Populus nigra*.

Poppy, see *Papaver* spp.

Poppy, Mexican or prickly, see *Argemone mexicana*.

Poppy, opium, see *Papaver somniferum*.

Poppy, pink plume, see *Macleaya cordata*.

*Peperomia coccinea*. (Balm-of-Gilead).

Aesthene ext. of leaves 95% T mosquito larvae. 643A.

*Populus nigra* L. (Black poplar).

Ext. were not repellent to Japanese beetle. 933B.

Portia tree, see *Theophrasta populnea*.

Potato, see *Solanum tuberosum*.

*Potentilla argentea* L. (Silver cinquefoil).

Ext. were not repellent to Japanese beetle. 933B.

*Prunus pebularia* Lindl.

Roots remedy for itch; decoction of fruit employed as wash to cure "rot" in sheep. 933B.

Prayer beads, see *Abrus precatorius*.

Prickly-ash, see *Zanthoxylum americanum* and *Z. clavaherula*.

Prickly pear, see *Opuntia humifusa*.

Privet, European, see *Ligustrum vulgare*.

*Prunus americana*.

Leaves and flowers T insects. 643A.

*Prunus amygdalus* Batsch. (*Amygdalus communis* L.; *A. amara* Hayne; bitter almond).

T head lice and a twig of tree kept in a room was said to dispel flies; amygdalin (10% in flour) NT *Prodenia litura*; oil 100% T *Lucilia cuprina* larvae, strongly repellent to oriental cockroach but of no value as repellent to screwworm. 849, 933B.

*Prunus persica*. (*Amygdalus persica* L.; peach).

Leaves and flowers T insects; leaves wet with juice of mulberry-tree leaves T silkworm. 643A, 933.

*Prunus serotina*. (Virgin green wild cherry).

Aesthene ext. of bark 10% T mosquito larvae. 643A, 645.

*Prunus spinosa* L. (Blackthorn).

Insects are not liable to attack this species. 933.

*Prunus* sp. (Cultivated cherry).

Various exts. were of no value as attractants to cherry fruitfly in Germany. 933B.

*Prunus* spp.

Aesthene ext. of leaves T mosquito larvae. 645.

*Peoralea corylifolia* L. (Babchi).

Ext. of seeds mixed with kerosene NT as mosquito larvicide. 933B.

*Peoralea pedunculata* (Mill.) Vail. (Sampson snake-root).

Ext. were not repellent to Japanese beetle. 933B.

*Psychotria speciosa*, see *Capparis speciosa*.

*Ptelea trifoliata*. (Water ash).

Aesthene ext. of root bark T mosquito larvae. 645.

*Pteridium aquilinum* (L.) Kuhn. (Bracken).

Ext. were not repellent to Japanese beetle; clothes moths do not deposit their eggs in presence of these leaves, it is claimed. 933, 933B.

*Pteridium latissimum* (Lam.) Hieron. (Bracken).

Aesthene ext. of rhizome NT mosquito larvae. 643A, 933B.

*Pterocarya atropurpurea* C. DC.

Used in control of insects; used as dust, NT Mexican bean beetle. 837.

*Pterocarpium apertifolium* (L.) Willd. (*P. aceroides* Willd.).

In India flowers used as disinfectant and to keep away insects from bed clothes; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.

*Pueraria thurbergiana*. (*P. lobata* Nakai; kudzu vine).

Aesthene and water ext. of leaves NT mosquito larvae. 643A.

*Pueraria yunnanensis* Fr.

Used in control of insects. 837.

Puffball, giant, see *Lycoperdon bovista*.

*Pulegium vulgare*, see *Meibomia pulgatum*.

*Pulicaria dysenterica* (L.) Gaertn. (*Inula dysenterica* L.; seawort).

Herb insecticide. 933.

*Pulicaria vulgaris* Gaertn. (*Inula pulicaris* L.).

Flowers NT flies. 933.

*Palmonaria officinalis* L. (Common lungwort).

Ext. were not repellent to Japanese beetle. 933B.

Pulverised wood, see *Andira rosea*.

Pumpkin, see *Cucurbita pepo*.

Pumpkin, striped cushaw, see *Cucurbita moschata*.

*Punica granatum* L. (Pomegranate).

A 0.75- and 0.5% solution of pelletierine 90% T and 70% T bean aphids, respectively, and similar concentrations of pseudopelletierine 100% and 90% T. 933B.

*Pussutoes*, see *Antennaria* spp.

*Pycnanthemum flexuosum* (Walt.) B. S. P. (*Koelia flexuosa*).

Ext. were not repellent to Japanese beetle. 933B.

*Pyrethrum*, see *Chrysanthemum* sp.

*Pyrus communis* L. (Kiefer pear).

Ext. were not repellent to Japanese beetle. 933B.

*Pyrus* sp. (Common pear).

Ext. were not repellent to Japanese beetle. 933B.

*Quassia amara* L. (Surinam quassia).

This species has been largely replaced in use by Jamaica quassia, which occurs in much greater abundance. 933B.

*Quassia excelsa*, see *Pterocarya excelsa*.

*Quassia*, Jamaica, see *Pterocarya excelsa*.

*Quassia*, Surinam, see *Quassia amara*.

*Quassia* sp.

T mosquito larvae and as mothproofing agent. 643A, 1175, 1216P.

*Quebracho*, see *Schinopsis* sp.

*Quercus alba* L. (White oak).

Water ext. of leaves 25% T mosquito larvae. 643A.

*Quercus coccinea* Muench. (Scarlet oak).

Ext. of leaves 35% T mosquito larvae. 643A, 933B.

*Quercus rubra* L. (Common red oak).

Ext. were not repellent to Japanese beetle. 933B.

*Quercus velutina* Lam. (Black oak).

Aesthene and water ext. of leaves 10% T mosquito larvae. 643A.

*Quercus* spp.

Commercial exts. of gallnut and valonia were repellent to Japanese beetle; tannin NT clothes moths (739); woolen fabrics protected from moths by treatment with 3% tannin solution and then a bath of antimony salt. 739, 933B.

*Quillaja brasiliensis* Mart. 933B.

*Quillaja saponaria* Molina. (Quillai; quillaya; soap-bark).

Used as spreader 21% T prune aphid; bark T as mothproofing agent. 933, 1157P, 1164P, 1166P, 1175, 1176, 1179, 1258P, 1259P, 1260P, 1261P.

*Quinos*, see *Cydonia* sp.

*Radicula armoracia*, see *Armoracia lapathifolia*.

Radish, horse, see *Armoracia lapathifolia*.

Ragweed, see *Ambrosia artemisiifolia*.

Ragweed, great, see *Ambrosia trifida*.

*Randia dumetorum* Lam.

This fish poison plant is commonly found in coffee-growing areas of India; 5% alesh. ext. of fruit skin 90% T *Epacromia tamulue* and *Euproctis fraterna*; NT *Crocidolomia binotalis*; ext. of root bark 100% T *E. fraterna*; 1/8% alesh. ext. of root bark 80% T mosquito larvae; exts. of fruit more or less toxic to aphids; water exts. of powdered fruit (1 lb./10 gal. soapy water) 10% T leafhoppers, and 10% strength exts. of roots, 80% T *Coccus viridis*. 933B.

*Randia spinosa* (Jacq.) Karst.

Fruit used as fish poison. 735.

*Rauseneus septentrionalis* Poir. (Buttercup).

Ext. were not repellent to Japanese beetle. 933B.

- Rape**, see *Brassica* spp.
- Ratsbane**, West African, see *Dichapetalum toxicarium*.
- Rattlebox**, see *Rhinanthus crista-galli*.
- Resusilla obscura** K. Sch.
- Decoction of leaves used in West Africa as remedy for parasitic skin diseases, yaws, and hair lice. 933B.
- Resusilla vomitoria** Af.
- Decoction of leaves used in West Africa as remedy for parasitic skin diseases, yaws, and hair lice. 933B.
- Resusilla Myrtilloides** Willd.
- Bruised leaves applied externally for treatment of itch in India. 933B.
- Remusatia vivipara** (Lodd.) Scott. (*Arum viviparum* Roxb.).
- Root made into ointment with turmeric, as remedy for itch. 933B.
- Renees odorata** L. (Mignonette).
- Exts. were not repellent to Japanese beetle. 933B.
- Rhamnus cathartica** L. (Common buckthorn).
- Exts. were not repellent to Japanese beetle. 933B.
- Rhamnus frangula** L. (Alder buckthorn).
- Cortex of plant NT *Prodenia litura*. 933B.
- Rhamnus purshiana** DC. (Cascara sagrada).
- Acetone ext. of bark NT mosquito larvae. 645.
- Rhamnus crenatus** Sieb. and Zucc.
- Gave low mortality to several species of insects. 837.
- Rheum officinale** Baill. (Rhubarb).
- Water ext. of root 70% T mosquito larvae. 743A.
- Rheum raphanistrum** L. (Garden rhubarb).
- Water ext. of root 70% T mosquito larvae; *Radix rhei* NT *Prodenia litura*. 933B.
- Rheum** sp. (Mixture of rhubarb sap).
- Used as plant injection; effective on infestation of *Eriosoma lanigerum*. 175.
- Rhinanthus nasutus** (L.) Kurr. (*R. communis* Nees.).
- Used in India as remedy for dhobi's itch. 933B.
- Rhinanthus crista-galli** L. (Rattlebox). 933.
- Rhodium**, oil of.
- 70-80% T *Lucilia cuprina* larvae. 849.
- Rhododendron hunnewellianum** Rehder and Wilson.
- Nao-yang-who).
- Plant grows in China, and the compounds (andromedotoxins and an unidentified substance) present in it are effective as insecticides; recommended especially as stomach poison for insects. 933B.
- Rhododendron japonicum** (Gray) Suring. (*R. molle* Sieb. and Zucc.).
- Powdered flowers might be used to control *Rondotia menciaana* in China. 933B.
- Rhododendron molle** G. Don.
- Roots and leaves gave low mortality to insects. 837.
- Rhododendron** sp.
- Best results obtained against *Rondotia menciaana* were with a pyrethrum-soap soln., which was followed in effectiveness by rhododendron-soap soln. and croton oil emulsion. 933B.
- Rhubarb**, garden, see *Rheum raphanistrum*.
- Rhubarb**, medicinal, see *Rheum officinale*.
- Rhus canadensis** March. (*R. aromatica* Ait.).
- Exts. were not repellent to Japanese beetle. 933B.
- Rhus coriaria** L. (Sumac).
- When grown in proximity to infested vines, sumac destroys phylloxera; tannin in leaves kill or repel woolly aphids, it is believed; infusions of wood and leaves tested against phylloxera on grape vines in Italy gave negative results. 933.
- Rhus glabra**. (Smooth sumac).
- Acetone ext. of leaves NT mosquito larvae. 645.
- Rhus toxicodendron**, see *Toxicodendron radicans*.
- Rhus** sp. (Sumac).
- Water ext. of berry 20% T and of leaves 5% T mosquito larvae. 643A.
- Rhynchosia flailifolia**, see *Neorautanensis flailifolia*.
- Ribes grossularia** L.
- Extractum thebi (10% in water) NT *Prodenia litura*. 933B.
- Rice**, see *Oryza sativa*.
- Ricinus communis** L. (*R. vulgaris* Mill.; *R. medicus* Forst.; castor-bean plant; castor-oil plant; Turkey red oil).
- Powdered beans and husks, free of oil, T bees; powder ST silkworms, flies, and grasshoppers, but not webworms; acts as mosquito repellent; T when used in combination with pyrethrum against flies; castor oil, hydrogenated, T as mothproofing agent; sulphonated castor oil used to increase floatability on water of Paris green for killing Anopheline larvae and as mothproofing agent. 319P, 643A, 780P, 781P, 828P, 839P, 933, 933B, 972P, 977P, 980P, 1175, 1176, 1178.
- Robinia pseudacacia** L. (Common locust).
- Infusions of powdered bark mixed with manure ST fly larvae; exts. were not repellent to Japanese beetle. 933B.
- Root**, cucumber, see *Medeola virginiana*.
- Root**, culver's, see *Veronicastrum virginaleum*.
- Root**, red, see *Lachnanthes tinctoria*.
- Root**, yellow, see *Xanthorrhiza epifolia*.
- Rorippa armoracia**, see *Armoracia ethiopia*.
- Rosemary**, see *Rosmarinus officinalis*.
- Rosewood**, oil of.
- 70-80% T *Lucilia cuprina* larvae. 849.
- Rosmarinus officinalis** L. (Rosemary; garden rosemary; oil of rosemary).
- Ext. of oil (100 p.p.m.) 90% T and (50 p.p.m.) 20% T mosquito larvae; oil 100% T *Lucilia cuprina* larvae. 643A, 849, 933.
- Rotenone**.
- T as mothproofing agent. 926P, 1175.
- Royala elegans** Wall.
- Leaves used as insecticide. 933.
- Rubber tree**, see *Hevea* spp.
- Rudbeckia hirta** L. (Black-eyed susan).
- Exts. from entire plant were repellent to Japanese beetle. 933B.
- Rue**, common, see *Ruta graveolens*.
- Rumex acetosa** L. (Garden sorrel).
- Exts. were not repellent to Japanese beetle. 933B.
- Rumex** sp.
- Aloch. ext. NT cotton caterpillars. 933.
- Rungia repens** (L.) Nees. (*Justicia repens* L.).
- In India whole plant considered vermifuge. 933B.
- Ruprechtia laurifolia** C. A. May.
- Whole plant used as fish poison. 795.
- Rush**, common, see *Juncus effusus*.
- Ruta graveolens** L. (Common rue; oil of rue).
- Strong decoction obtained by macerating leaves of plant in soap and water, stated to be successful remedy for American blight; oil 90-80% T *Lucilia cuprina* larvae. 849, 933.
- Sabadilla officinarum**, see *Schoenocaulon officinale*.
- Sabatia angularis** (L.) Pursh. (Rose gentian).
- Exts. were not repellent to Japanese beetle. 933B.
- Sabina officinalis**, see *Juniperus sabina*.
- Sabral**, see *Sebania punctata*.
- Safflower**, see *Carthamus tinctorius*.
- Saffron**, meadow, see *Colchicum autumnale*.
- Sage**, see *Salvia* sp.
- Sage**, garden, see *Salvia officinalis*.
- Sage**, green, see *Salvia triloba*.
- Sage**, scarlet, see *Salvia splendens*.
- Sage**, Spanish, oil of, see *Salvia bicolor*.
- Sagebrush**, see *Artemisia tridentata*.
- St. Johnswort**, see *Hypericum perforatum*.
- Sakut**, see *Dioscorea piscatorum*.
- Salix nigra** Marsh. (Black willow).
- Exts. of bark 5% T mosquito larvae. 643A, 933B.
- Salmea scandens** (L.) DC.
- Used as fish poison. 795.
- Salvia bicolor**. (Oil of Spanish sage).
- 99-80% T *Lucilia cuprina* larvae. 849.
- Salvia moerottiana** Wall.
- Leaves used as remedy for itch. 933B.
- Salvia officinalis** L. (Sage).
- Ext. of root 95% T and leaves 80% T mosquito larvae; acetone ext. of leaves and stems T mosquito larvae. 643A, 645.
- Salvia plebeia** R. Br.
- Seeds T vermin. 933B.
- Salvia sclarea** L.
- Oil applied in 2% emulsion sprays, 51-80% T red spider and cotton aphid. 933B.
- Salvia splendens** Kar. (Scarlet sage).
- Exts. were not repellent to Japanese beetle. 933B.
- Salvia triloba** L. (Green sage).
- Exts. were not repellent to Japanese beetle. 933B.



*Salvia* sp. (Sage).

Odor of sage had no effect on mosquitoes, but smoke from burning leaves stunned them in 8 to 10 min. and killed them in 36 hrs. 933B.

*Samadera indica* Gaertn. (*S. pentastata* G. Don; *Niota pentastata* Poir.; *N. commersoni* Pers.). 933.

*Samanea*, see *Cassia* *anisata*.

*Sambucus canadensis* L. (American elder).

Acetone ext. of flowers T mosquito larvae; decoction of leaves, flowers, or berries recommended as wash for wounds to prevent injury from flies; NT silk-worms, webworms, and rose aphids. 645, 933.

*Sambucus nigra* L. (European elder).

Acetone ext. of flowers T mosquito larvae; leaves are noxious to insects, moles, etc. 645, 933.

Sandalwood, see *Santalum album*.

Sandarae tree, see *Callitris quadrivalvis*.

Sandbar tree, see *Hura crepitans*.

*Sanguinaria canadensis* L. (Blood root).

Acetone ext. of root 35% T mosquito larvae 643A.

*Sanguisorba officinalis* L.

Gave low mortality to several species of insects. 837.

*Sansiveria roxburghiana* Schult.

In India this plant was prescribed for itch. 933B.

*Santalum album* L. (Santal; sandalwood).

Oil ext. 100% T (50 p.p.m.) and 65% T (25 p.p.m.) mosquito larvae; oil T *Lucilia cuprina* larvae; acetone ext. of wood T mosquito larvae. 645.

*Santolina chamaecyparissus* L. (Lavender-cotton). 933.

*Santolina* sp.

Small quantities of plants put in containers holding herbarium collections were reported to kill the insect pests. 933B.

*Santenin*.

10% T (100.0 p.p.m.) mosquito larvae. 643A.

*Sepidus marginatus* Willd.

Repellent to grain weevils and other insects. 933B.

*Sepidus mukorossi* Gaertn.

T green peach aphid. 933B.

*Sepidus saponaria* L.

Fruit used as fish poison. 795.

*Sepidus utilis* Trab.

Lapin effective in combating various pests in fruit regions of Azerbaijan; an emulsion made of 5 lbs. saponin (ext. of fruit), 5 gals. paraffin, and 25 gals. water recommended against olive scale in Algeria. 933B.

*Sesum ellipticum* (Hochst.) Pax. (Maharaka).

Branches used on maggot-infested wounds. 933B.

*Sesum indicum* Willd.

Seeds used in India as fish poison and as insecticide. 933B.

*Saponaria officinalis* L. (Soapwort).

Concoction used as external application for itch in France and Germany; exts. were not repellent to Japanese beetle. 933B.

*Saponaria vaccaria* L. (*Gypsophila vaccaria* Sibth. and Sm.; cow soapwort).

Mucilaginous sap used as soap by natives of Sind, India, for washing clothes, and it was said to be cure for itch. 933B.

*Sarcostemma brevistigma* Wight and Arn. (*Aroclipsis acida* Roxb.).

In India water passed through a bundle of these plants and a bag of salt is used to extirpate white ants from a field. 933B.

*Sarsaparilla*, American, see *Aralia nudicaulis*.

*Sassafras albidum* (Nutt.) Nees. (*S. officinale* Nees. and Eberm.; *S. assecuras* Kartt.; *S. varifolium* (Salisb.) Kuntze; *Laurus sassafras* L.; *sassafras*).

Powdered bark T chicken lice and dog flea, but not recommended against these insects; oil plus petrolatum one of best repellents against scabworm and is attractive to cockroaches; oil 79-80% T *Lucilia cuprina* larvae; acetone ext. of leaves 5% T mosquito larvae; alesh. ext. of dried root bark NT cotton caterpillars. 643A, 849, 933B.

*Satureia hortensis* L. (Summer savory).

Oil repellent to cotton aphids; smoke from burning dried leaves stunned and killed mosquitoes; exts. were not repellent to Japanese beetle. 933B.

*Sauromatum guttatum* Schott. (*Arum concinnum* Ait.).

Plant was observed during blooming period to

attract in 2 days more than 100 flies, which were found dead in bottom of flowers. 933B.

*Saururus cernuus* L. (Common lizardtail).

Exts. were not repellent to Japanese beetle. 933B.

*Scaevola lappa* (Decaisne) C. B. Clark. (*Aucklandia costus* Falconer; *costus* root).

Insecticide for moths. 933.

Savin, see *Juniperus sabina*.

Savory, summer, see *Satureia hortensis*.

*Scabiosa atropurpurea* L. (Sweet scabiosa).

Exts. were not repellent to Japanese beetle. 933B.

*Schinopsis* sp. (Quebracho).

Commercial ext. effective repellent to Japanese beetle. 933B.

*Schkuhria abrotanoides* Roth.

Flowers used in Peru for same purpose as genuine insect powder. 933B.

*Schleiera trifluga* Willd.

In India natives rub up bark with oil and use as remedy for itch; seeds used as insecticide. 933B.

*Schoenocaulon officinale* (Schlecht. and Cham.) A. Gray. (*Veratrum officinale* Schlecht. and Cham.; *Helonias officinalis* Don; *Asparagus officinalis* Lindl.; *Sabadilla officinarum* Brandt and Ratseb.; *sabadilla*).

Used as dust, T grasshoppers, roaches, etc.; used as insecticide against lice; T mosquitoes. 933.

*Scilla maritima*, see *Urginea maritima*.

*Scorzonera latifolia* (Fisch. and May.) DC.

Colophony, resin obtained from this species, may be of value in manufacture of adhesives for use in caterpillar glue. 933B.

*Scrophularia marilandica* L. (Figwort).

Exts. were not repellent to Japanese beetle. 933B.

*Scrophularia nodosa*.

Acetone ext. of whole plant 25% T mosquito larvae. 643A.

*Scutellaria lateriflora*. (Skullcap).

Acetone ext. of whole plant 25% T mosquito larvae. 643A.

Sea onion, see *Urginea maritima*.

*Sebastiana pavoniana* Muell. Arg.

Milky juice T various insects. 933B.

*Selaginella selandica* Spring.

Leaves were put on fires to keep ticks away from houses in Gold Coast, Africa. 933B.

*Senecio aureus* L. (Groundsel).

Exts. were not repellent to Japanese beetle. 933B.

*Senecio vulgaris* L.

Exts. were not repellent to Japanese beetle. 933B.

*Senna*, Alexandria, see *Cassia acutifolia*.

*Senna coffee*, see *Cassia occidentalis*.

*Senna*, Congo, see *Cassia angustifolia*.

*Senna purpurea*, see *Cassia sophora*.

*Senna sophora*, see *Cassia sophora*.

*Senna*, wild, see *Cassia herbacea*.

*Serenoa repens* (Bart.) Small. (Saw palmetto).

Exts. were not repellent to Japanese beetle. 933B.

*Sericoarpus asteroides* (L.) Bsp. (Whitetop-aster).

NT aphids. 933.

*Serjania acuminata* Radlk.

Stems and leaves used as fish poison. 795.

*Serjania caracasana* (Jacq.) Willd.

Stems and leaves used as fish poison. 795.

*Serjania clematidifolia* Camb.

Leaves and stems used as fish poison. 795.

*Serjania cuspidata* Camb.

"Leaves and stems used as fish poison. 795.

*Serjania erecta* Radlk.

Stems and leaves used as fish poison. 795.

*Serjania fuscifolia* Radlk.

Stems and leaves used as fish poison. 795.

*Serjania glabrata* H. B. K.

Leaves and stems used as fish poison. 795.

*Serjania glutinosa* Radlk.

Stems and leaves used as fish poison. 795.

*Serjania grandiflora* Camb.

Leaves and stems used as fish poison. 795.

*Serjania ichthyotoma* Radlk.

Stems and leaves used as fish poison. 795.

*Serjania laracottiana* Camb.

Stems and leaves used as fish poison. 795.

*Serjania lethalis* St. Hil.

Stems and leaves used as fish poison. 795.

- Serjania ovalifolia* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania paucidentata* DC.  
Stems and leaves used as fish poison. 795.
- Serjania piscicaria* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania polyphylla* (L.) Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania rubraulis* Benth.  
Stems and leaves used as fish poison. 795.
- Serjania rufa* Radlk.  
Leaves and stems used as fish poison. 795.
- Serjania sericea* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania tristis* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania* sp. (Hebitchiohabu).  
Exts. of stems of this fish poison plant from British Guiana NT bean aphid. 933B.
- Sesamum indicum* L. (*S. orientale* L.; sesame; benne or teal oil).  
Acetone ext. of seed T mosquito larvae and houseflies; acetone ext. of flower tops and leaves T mosquito larvae. 645, 1276.
- Sesbania aculeata* Poir.  
In West Africa natives claimed that animals washed in water in which leaves of this shrub had been pounded could safely traverse a tsetse fly belt. 933B.
- Sesbania egypciaca* Pers. (*Deschynomene sesbania* L.).  
Seeds mixed with flour applied externally as remedy for itch in the Punjab. 933B.
- Sesbania punctata* DC. (Babral).  
Natives in Africa used decoction of leaves for washing animals to prevent bites of tsetse fly. 933B.
- Shepherd's-purse, see *Capsella bursa-pastoris*.
- Sideroxylon berbericum* A. DC. 933.
- Silene antirrhina* L. (Sleepy catchfly).  
Exts. were not repellent to Japanese beetle. 933B.
- Silphium laciniatum* L. (Compass plant).  
Exts. were not repellent to Japanese beetle. 933B.
- Silverbell tree, see *Halesia carolina*.
- Simaruba exocarpa*, see *Picrostema exocarpa*.
- Simaruba vesicifera* St. Hil.  
Bark reduced to powder used as insecticide. 933B.
- Sinapis alba*, see *Brassica hirta*.
- Sisyrinchium* sp. (Blue-eyed-grass).  
Exts. were not repellent to Japanese beetle. 933B.
- Sium suave* Walt. (Water parsnip).  
Exts. were not repellent to Japanese beetle. 933B.
- Skullcap, see *Scutellaria lateriflora*.
- Smartweed, see *Polygonum pennsylvanicum*.
- Smilacina trifolia* (L.) Desf. (*Vagnera trifolia* (L.) Morong; false Solomonseal). 933B.
- Smilax bonanox* L. (*S. tamnoides*; bamboo brier).  
Acetone ext. of root 30% T mosquito larvae. 643A.
- Smilax retundifolia* L. (Common greenbrier).  
Exts. were not repellent to Japanese beetle. 933B.
- Smilax tamnoides*, see *S. bonanox* L.
- Snakeroot, Canada, see *Asarum canadense*.
- Snakeroot, sampson, see *Psoralea pedunculata*.
- Snakeroot, seneca, see *Polygala senega*.
- Snakeroot, Texas, see *Aristolochia reticulata*.
- Snakeroot, Virginia, see *Aristolochia serpentaria*.
- Snapdragon, see *Antirrhinum* sp.
- Snapweed, spotted, see *Impatiens biflora*.
- Sneezeweed, see *Helenium autumnale*.
- Snow-on-the-mountain, see *Euphorbia marginata*.
- Soapbark, see *Quillaja saponaria*.
- Soapwort, see *Saponaria officinalis*.
- Soapwort, cow, see *Saponaria vaccaria*.
- Soja max*, see *Glycine soja*.
- Solanum auriculatum* Ait. 933.
- Solanum carolinense* L. (Horse nettle).  
Water ext. NT small webworms and small catalpa caterpillars; powder, used as fumigant, NT small catalpa caterpillars; used as stomach poison, NT silkworms and webworms, but ST grasshoppers; used as dust, ST tent caterpillars and roaches; acetone ext. of berry 40% T mosquito larvae. 643A, 933.
- Solanum dulcamara* L. (Bitter nightshade).  
Infusions of entire plant mixed with manure 26% T fly larvae in one test and 83% T in a second test; exts. were not repellent to Japanese beetle. 933B.
- Solanum indicum* L.  
In India leaves and fruit, rubbed up with sugar, used as external application for itch. 933B.
- Solanum jamezoi* Torr.  
Leaves T potato beetle larvae. 933B.
- Solanum nigrum* L. (Black nightshade).  
Decoction of fresh plant remedy for woolly aphid; decoction as spray against aphids only partly effective; infusion or ext. of unripe fruits T insects, the toxic principle being solanine, an alkaloid present in a number of solanaceous plants. 933B.
- Solanum tuberosum* L. (Potato).  
Concentrated potato water T lice on animals; potato starch NT roaches. 933.
- Solidago jamezoi* Ait. (Early goldenrod).  
Exts. were not repellent to Japanese beetle. 933B.
- Solidago odora*. (Goldenrod).  
Acetone and water exts. of leaves and tops 5% T mosquito larvae. 643A.
- Solidago* sp. (Goldenrod).  
Exts. from fresh leaves slightly repellent to Japanese beetle. 933B.
- Solomonseal, false, see *Smilacina trifolia*.
- Solomonseal, great, see *Polygonatum commutatum*.
- Solomonseal, hairy, see *Polygonatum biflorum*.
- Sonchus oleraceus* L. (Sowthistle).  
Exts. were not repellent to Japanese beetle. 933B.
- Sophora flavescens* Ait.  
Decoction of stems and leaves used in Japan as insecticide. 837, 933.
- Sophora griffithii* Stocks. (*Keyserlingia griffithii* Boiss.).  
Powdered seeds mixed with oil T lice in hair. 933.
- Sophora japonica* L. (Japanese pagoda-tree).  
Acetone ext. root 20% T and of stem NT mosquito larvae. 643A.
- Sophora mollis* R. Graph.  
Used as insecticide in India. 933B.
- Sophora pachycarpa* Schrenk.  
This species grows wild in central Asia and is rich source of an active alkaloid, pachycarpine, which might be used as contact insecticide; sophodust has been effective in controlling aphids; alkaloids are intermediate between anabasine and lupine in insecticidal power; d-sparteine, contained in vegetative parts is most toxic alkaloid. 933B.
- Sophora tinctoria*, see *Baptisia tinctoria*.
- Sophora tomentosa* L.  
Exts. of seeds NT bean aphid; crude exts. of cysteine containing seeds such as these, with the possible exception of laburnum, are not likely to prove of practical importance; cysteine, as stomach poison, NT *Selenia tetralunaria* larvae. 933B.
- Sopilots.  
Chips of wood (Honduras) reported to contain rotenone. 759.
- Sorbus americana*. (American mountain ash).  
Acetone ext. of berries 20% T and of bark 10% T mosquito larvae. 643A.
- Sorrel, garden, see *Rumex acetosa*.
- Sourwood, see *Oxydendrum arboreum*.
- Southern maidenhair, see *Adiantum capillus-veneris*.
- Southernwood, see *Artemisia abrotanum*.
- Sowthistle, see *Sonchus oleraceus*.
- Soybean, see *Glycine soja*.
- Sparganium americanum* Nutt. (Bur reed).  
Exts. were not repellent to Japanese beetle. 933B.
- Spatholobus roxburghii* Benth.  
Roots reported to contain rotenone. 759.
- Spearmint, see *Mentha spicata*.
- Specularia perfoliata* (L.) A. DC. (Venus looking-glass).  
Exts. were not repellent to Japanese beetle. 933B.
- Speedwell, see *Veronica officinalis*.
- Spicebush, see *Lindera benzoin*.
- Spigelia marilandica*. (Maryland pink).  
Water ext. of root 30% T mosquito larvae. 643A.
- Spikenard, American, see *Aralia racemosa*.
- Spilanthes acmella* (L.) Murr.  
Fruit used in India as fish poison and as insecticide. 933B.
- Spindle tree, see *Eucynamus acropneus*.
- Springbeauty, Virginia, see *Claytonia virginica*.



- Spruce*, Norway, see *Picea abies*.  
*Spruce*, oriental, see *Picea orientalis*.  
*Spruce*, see *Euphorbia ipseocarpa*.  
*Squash*, blue Hubbard.  
*Acetone* ext. of seeds *T* mosquito larvae. 645.  
*Squash*, Connecticut straight-neck.  
*Acetone* ext. of seeds *T* mosquito larvae. 645.  
*Squash*, golden summer crook-neck.  
*Acetone* ext. of seeds *T* mosquito larvae. 645.  
*Squash*, winter.  
*Acetone* ext. of seeds *T* mosquito larvae. 645.  
*Squill*, see *Urginea maritima*.  
*Squirrelcorn*, see *Dicentra canadensis*.  
*Stachys officinalis* (L.) Franch. (Common betony).  
*Exts.* from entire plant were more or less repellent to Japanese beetle. 933B.  
*Star-of-Bethlehem*, see *Ornithogalum umbellatum*.  
*Stellaris media* (L.) Cyr. (*Alone media* L.; common chickweed).  
*Exts.* were not repellent to Japanese beetle. 933B.  
*Stemona collinsae* Craib.  
*Exts.* of tubers of this plant from Siam NT bean aphid. 933B.  
*Stemona tuberosa* Lour. (Paipu).  
*Decoctions* of dried roots 90% *T* crickets, 40% *T* weevils, and 100% *T* lepidopterous larvae; alch. ext. *T* body louse, public louse, fleas, and effective in killing eggs of lice. 933B.  
*Stillingia sylvatica* L. (Stillingia).  
*Exts.* were not repellent to Japanese beetle. 933B.  
*Setia viridula* Trin. (Sleepy grass).  
*Powder*, used as dust, ST roaches, but NT tent caterpillars. 933.  
*Stonemunt*, see *Cunila origanoides*.  
*Storax tree*, see *Styrax officinalis*.  
*Strophanthus*, see *S. kombe*.  
*Strophanthus divaricatus* (Lour.) Hook. and Arn.  
*Gave* low mortality to several species of insects. 937.  
*Strophanthus kombe* Oliver. (Strophanthus).  
*Exts.* were not repellent to Japanese beetle. 933B.  
*Strychnos ignatii*.  
*Seeds* used in mothproofing. 1164P, 1175.  
*Strychnos nuxvomica*.  
*Seeds* used in mothproofing. 1164P, 1175.  
*Strychnos toxifera* Schomb. ex. Benth.  
*Minimum* toxic concentration required to kill about 95% of bean aphids sprayed was greater than 0.5 gm./100 cc. while that of nicotine sulfate was 0.009 gm./100 cc.; weak concentration of curare increased heart activity of *Corethra crystallina* larvae. 933B.  
*Stylosanthes biflora* (L.) B. S. P. (Pencil flower).  
*Exts.* from plant were not repellent to Japanese beetle. 933B.  
*Styrax benzoin* Dryand. (Benzoin gum; kemenyan).  
*5% Water* ext. of roots of this Malayan fish poison tree killed three-fifths of moth larvae of *Parasa herbifera*, while a 0.5% ext. of derris roots killed all larvae treated in less time; acetone ext. of gum NT mosquito larvae. 645, 933B.  
*Styrax officinalis* L. (Storax tree).  
*Solution* of styrax containing sulfur or tar recommended as remedy for mites on man and animals. 933B.  
*Styrax* spp.  
*Benzoin* derived from one or more species of *Styrax* was one of mothproofing materials claimed in a German patent. 933B.  
*Sugar-apple*, see *Annona squamosa*.  
*Sumac*, see *Rhus* sp.  
*Sumac*, Sicilian, see *Rhus coriaria*.  
*Sumac*, smooth, see *Rhus glabra*.  
*Suma rubra*.  
*Water* ext. of bark ST silkworms. 933.  
*Sundew*, roundleaf, see *Drosera rotundifolia*.  
*Sunflower*, common, see *Helianthus annuus*.  
*Sunflower*, sweet, see *Heliopeis helianthoides*.  
*Sunrose*, see *Helianthemum canadense*.  
*"Supli"* see *Mundula coriacea*.  
*Susan*, black-eyed, see *Rudbeckia hirta*.  
*Swallowwort*, see *Chelidonium majus*.  
*Swampcandle*, see *Lysimachia terrestris*.  
*Swamp pink*, see *Helianthus bailliae*.  
*Sweetbay*, see *Magnolia virginiana*.  
*Sweetfern*, see *Myrica perigrina*.  
*Sweetleaf*, see *Symplocos paniculata*.  
*Sweet oil*, see *Olea europaea*.  
*Sweet woodruff*, see *Asperula odorata*.  
*Sweetia elatris* Buch.-Ham.  
*Exts.* applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.  
*Sweetia chrysilla* (Roxb.) Lyons. (Chiretta).  
*Exts.* were repellent to Japanese beetle. 933B.  
*Symphytum officinale*. (Comfrey).  
*Water* ext. of root 45% *T* mosquito larvae. 643A.  
*Symplocarpus fastidius* [L.] Nutt. (Skunk cabbage).  
*Acetone* ext. of root 65% *T* mosquito larvae. 643A.  
*Symplocos paniculata*. (Sweetleaf).  
*Acetone* ext. of root 10% *T* mosquito larvae. 643A.  
*Synandropadix vermiculatus* Engl.  
*Poisonous* bulbs serve for destruction of injurious insects. 933.  
*Syringa vulgaris* L. (Common lilac).  
*Oil* 39-20% *T* *Lucilia cuprina* larvae; *exts.* were not repellent to Japanese beetle. 849, 933B.  
*Syzygium aromaticum*. (*Eugenia caryophyllata* Thunb.; *E. aromatica* Baill.; *Caryophyllus aromaticus* L.; clove tree).  
*T* chicken lice, dog fleas, body lice, and clothes moths; oil of clove buds and powder strong repellents against screwworm and attractive to oodling moth; powdered cloves *T* carpet beetle larvae but NT cockroaches; acetone ext. of flower buds *T* mosquito larvae and ants. 643A, 645, 933, 933B, 1024, 1025, 1048P, 1176, 1179.  
*Syzygium cumini*. (*Eugenia cumini* (L.) Druce; Jambolan plum).  
*Exts.* were not repellent to Japanese beetle. 933B.  
*Tagetes erecta* L. (African marigold).  
*Ext.* of seeds mixed with kerosene gave poor results as larvicide. 933B.  
*Tagetes minuta* L. (*T. glandulifera* Schrank.). 933.  
*Tagetes patula* L. (French (harmony) marigold).  
*Acetone* ext. of flowers NT mosquito larvae. 645.  
*Tagetes patula* L. (Dwarf double French yellow pigmy marigold).  
*Acetone* ext. of flowers NT mosquito larvae. 645.  
*Tagetes* spp.  
*Oil* from Mexican marigold (probably *T. erecta*) had an appreciable effect on stalk borer in maize, but far too weak to be used commercially against this insect; *exts.* were not repellent to Japanese beetle; oil 99-80% *T* *Lucilia cuprina* larvae. 849, 933B.  
*Talaballi*.  
*Aich.* ext. and water suspensions NT caterpillars. 933B.  
*Talisia esculenta* (St. Hil.) Radlk.  
*Stems* and leaves used as fish poison. 795.  
*Tallowwood*, see *Ximenia americana*.  
*Tamus communis* L. (Black-bryony).  
*Powdered* root *T* hair lice. 933.  
*Tanacetum vulgare* L. (Tansy).  
*Flowers* have stupefying effect on insects; plants ST peach-tree borer; alch. ext. NT cotton caterpillars; acetone ext. of whole plant 10-30% *T* mosquito larvae; oil 99-80% *T* *Lucilia cuprina* larvae. 643A, 849, 933.  
*Tangerine orange*, oil of, see *Citrus reticulata*.  
*Tansy*, see *Tanacetum vulgare*.  
*Tapura amazonica* Poepp. and Endl.  
*Branches* used as fish poison. 795.  
*Tapura guianensis* Aubl.  
*Branches* used as fish poison. 795.  
*Taraxacum palustre* var. *officinale* (Lam.) Fernald. (Dandelion).  
*Acetone* ext. leaves *T* mosquito larvae, but of root NT; *exts.* were not repellent to Japanese beetle. 645, 933B.  
*Tarragon*, see *Artemisia sastrorum*.  
*Taxus cuspidata* Sieb. and Zucc. (Japanese yew).  
*Exts.* were not repellent to Japanese beetle. ---  
*Tea*, see *Camellia sinensis*.  
*Tea*, crystal-, see *Ledum palustre*.  
*Tea*, Jersey-, see *Ceanothus americanus*.  
*Tea*, Paraguay, see *Ilex paraguayensis*.  
*Tea*, true Labrador-, see *Ledum greenlandicum*.  
*Teak*, see *Tectona grandis*.

- Tectona grandis* L. f. (Teak).  
Tar extracted from wood was applied to sores of draft cattle to destroy maggots; teak-wood tar remedy for white ants. 933B.
- Teel oil, see *Sesamum indicum*.
- Telfairia pedata*. (Kwame nuts).  
Seeds used as insecticide. 1803.
- Tephrosia ambigua* M. A. Curtis. (*Cracca ambigua*).  
Insecticidal content found in roots. 759, 761.
- Tephrosia brevipes* Benth.  
Leguminous plant reported to contain rotenone. 759.
- Tephrosia candida* (Roxb.) A. DC.  
Roots and pods reported to contain rotenone. 759, 795.
- Tephrosia chrysophylla* Pursh.  
Roots reported to contain rotenone. 759.
- Tephrosia cinerea* (L.) Pers.  
Aerial portions reported to contain rotenone. 759.
- Tephrosia decumbens* Benth.  
Leguminous plant reported to contain rotenone. 759.
- Tephrosia densiflora* Hook. f.  
Roots, stems, seeds, and petals reported to contain rotenone. 759.
- Tephrosia diffusa* (E. Mey.) Harv.  
Zulus used decoction of roots to destroy head lice. 933B.
- Tephrosia ehrenbergiana* Schweinf.  
Roots, stems, seeds, sepals, petals, ovules, and stamens reported to contain rotenone. 759.
- Tephrosia emarginata* H. B. K.  
Used as fish poison. 795.
- Tephrosia gracillima* (Robinson) Killip.  
Roots reported to contain rotenone. 759.
- Tephrosia grandiflora* (Vahl.) Pers.  
Thongs used decoction of root of species of *Tephrosia* (probably *T. grandiflora*) as parasiticide. 933B.
- Tephrosia heckmannia* Harms.  
Infusions of fresh leaves were reported to be toxic to bedbugs and larvae of maize stalk borer, but exts. of dry material NT bean aphid. 933B.
- Tephrosia heydeana* (Rydb.) Standl.  
Leguminous plant reported to contain rotenone. 759.
- Tephrosia hispidula* (Michx.) Pers. (*Cracca h.*).  
Roots reported to contain rotenone. 759, 761.
- Tephrosia hookeriana* Wight and Arn.  
Ext. of roots, stems, leaves, seeds, and fruits ST bean aphid. 933B.
- Tephrosia latidens* (Small) Standl. (*Cracca l.*).  
Roots reported to contain rotenone. 759, 761.
- Tephrosia lindheimeri* A. Gray. (*Cracca l.*).  
Insecticidal content found in roots; roots, seeds, and pods reported to contain rotenone. 759, 761.
- Tephrosia macro-poda* (E. Mey.) Harv.  
Roots reported to contain rotenone. 759.
- Tephrosia nicaraguensis* Oerst.  
Leguminous plant reported to contain rotenone. 759.
- Tephrosia nitens* Benth.  
Used as fish poison. 759, 795.
- Tephrosia noctiflora* Boj.  
Seeds reported to contain rotenone. 759.
- Tephrosia sylkensis* Bak.  
Ext. of leaves, seeds, and pods much less toxic to citrus aphid than were those of *T. vogelii*. 933B.
- Tephrosia onobrychoideis* Nutt.  
Roots reported to contain rotenone. 759.
- Tephrosia piscatoria* (Ait.) Pers. (*Cracca p.* Lyons; *C. villosa purpurea* (L.) Kuntse.; *Galega purpurea* L.; *G. piscatoria* Ait.; *Tephrosia purpurea* Pers.; Pacific fish-poison).  
Used medicinally in India and to stupefy fish; NT tent caterpillar; combined roots and aerial portions reported to contain rotenone. 759, 933, 1116.
- Tephrosia sessiliflora* (Poir.) Hassl.  
Used as fish poison. 795.
- Tephrosia smallii* (Vail) Robinson.  
Roots reported to contain rotenone. 759.
- Tephrosia spicata* (Walt.) Torr. and Gray.  
Insecticidal content found in roots. 759, 761.
- Tephrosia talpo* Watson.  
Leguminous plant reported to contain rotenone. 759.
- Tephrosia toxicaria* (Sw.) Pers.  
Used as fish poison. 759, 795.
- Tephrosia villosa* (L.) Pers.  
Alch. exts. of roots and stems MT bean aphid. 933B.
- Tephrosia virginiana* (L.) Pers. (*Cracca v.*).  
Insecticidal content found in roots. 759, 761.
- Tephrosia visitata* Vog.  
In Holland dusts from plant NT *Myrmica rubra* and larvae of *Phalera bucephala*, but derris was fatal to them. 933B.
- Tephrosia vogelii* Hook. f.  
Leaves reported to contain rotenone. 759.
- Terminalia catappa* L. (*T. moluccana* Lam.; Indian almond).  
Juice of young leaves was employed in Southern India in an ointment for scabies; commercial ext. effective repellent to Japanese beetle. 933B.
- Teucrium canadense* L. (American germander).  
Ext. from entire plant were not repellent to Japanese beetle. 933B.
- Tes-mooro*, see *Zanthoxylum hamiltonianum*.
- Thalistrum polygamum* Muhl. (Meadow rue).  
Ext. were not repellent to Japanese beetle. 933B.
- Thea sinensis*, see *Camellia sinensis*.
- Theobroma cacao* L. (Cacao; cocoa).  
A chocolate manufacturer mentioned an odd experience in connection with disposal of cocoa shells. Some shells were used as bedding for dogs, later the keeper credited the shells with having caused the disappearance of fleas infesting the dogs. 933B.
- Thespesia populnea* (L.) Soland. (Portia tree; tulip-tree of India).  
Flowers and yellow juice of fruit employed as external application for itch in India. 933B.
- Thevetia ahouai* (L.) A. DC.  
Leaves and fruit used as fish poison. 795.
- Thevetia peruviana* (Pers.) Merrill.  
Leaves and fruit used as fish poison. 795.
- Thistle*, sow, see *Sonchus oleraceus*.
- Thoroughwort*, see *Eupatorium hyssopifolium*.
- Tuja occidentalis*. (Arbor vitae).  
Water ext. of leaves 25% T mosquito larvae. 643A.
- Thunder god vine*, Chinese, see *Tripterygium wilfordii*.
- Thyme*, see *Thymus vulgaris*.
- Thyme*, mother-of-, see *Thymus serpyllum*.
- Thyme*, oil of red, see *Thymus sp.*
- Thymus serpyllum* L. (Mother-of-thyme).  
In France decoction used to cure itch and some other skin disorders. 933B.
- Thymus vulgaris*. (Thyme).  
Acetone ext. of leaves NT mosquito larvae. 645.
- Thymus sp.* (Oil of red thyme).  
HT *Lucilia cuprina* larvae. 849.
- Tilia europaea* L. (European linden tree).  
Acetone ext. of flowers and leaves 50% T mosquito larvae. 643A, 933B.
- Tilia tomentosa*. (Silver linden tree).  
Powders and volatile constituents of flowers T ants. 643A.
- Tillandsia usneoides* L.  
This species contains rotenone. 933B.
- Timbo branco*, see *Lonchocarpus* spp.
- Timbo melancia*, see *Timbo vermelho*.
- Timbo pao*, see *Lonchocarpus* spp.
- Timbo vermelho*. (Timbo melancia).  
Roots reported to contain rotenone. 759.
- Ti-tree* oil.  
Tested against *Lucilia cuprina*, *L. sericata*, and *Calliphora vicina*. 918.
- Toadflax*, common, see *Linaris vulgaris*.
- Tobacco*, Artec, see *Nicotiana rustica*.
- Tobacco*, common, see *Nicotiana tabacum*.
- Tobacco*, Indian, see *Lobelia inflata*.
- Tobacco*, tree, see *Nicotiana glauca*.
- Tomato*, see *Lycopersicon esculentum*.
- Tonka bean*, see *Dipteryx odorata*.
- Tournefortia hirsutissima* D.  
Used as general insecticide in Haiti. 933B.
- Tournefortia volubilis* (L.) B. and S.  
Powdered leaves used as insecticide, especially effective against ticks. 933B.
- Toxicodendron radicans* (L.) Kuntze. (*Rhus toxicodendron* L.).  
Ext. tested in sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.

*Fragaria pomifera*, see *Maslinia pomifera*.

*Trachylebium horsemannianum* Hayne. (Earsibier copal tree).

Basin used with an odorous insecticidal material in impregnating wood to form an artificial cedar board or "mothwood." 933B.

*Tragesanth alleppe*.

Acetone ext. of gum NT mosquito larvae. 645.

*Tregia* sp.

Insecticidal plant occurring in Nicaragua. 933B.

*Triphitis onsecta* Radlk.

Infusion of leaves T itch mites and other parasites of skin. 933B.

*Trichilia trifoliata*, see *Walsure piscidia*.

*Trichocanthus* sp.

Acetone ext. of seeds T mosquito larvae. 645.

*Trifolium agrarium* L. (Hop clover).

Ext. were not repellent to Japanese beetle. 933B.

*Trifolium arvense* L. (Rabbitfoot clover).

Ext. were not repellent to Japanese beetle. 933B.

*Trigonella faucon-griseum* L. (Fenugreek).

Ext. were not repellent to Japanese beetle. 933B.

*Trillia odoratissima* (Walt.) Cass. (Carolina-vanilla).

Leaves T moth. 933.

*Trillium erectum* L. (Purple trillium).

Ext. from dry rhizomes and roots were more or less repellent to Japanese beetle. 933B.

*Tripterodendron filicifolium* Radlk.

Stems and leaves used as fish poison. 795.

*Tripterygium foetida* Loos.  
26.88% T codling moth, but gave low mortality to other insects. 837.

*Tripterygium wilfordii*. (Chinese thunder god vine).

Roots T codling moth and several other lepidopterous insects. 643A, 1143, 1144.

*Triticum* sp. (Wheat).

Used as insecticide against red spider; NT roaches and chicken lice. 933.

*Tropaeolum majus* L. (Common nasturtium).

Acetone ext. of leaves and stems T mosquito larvae. 645, 933.

Trumpet, angel-, see *Datura metel*.

*Tsukkoena*.

Water ext. 8T silkworms. 933.

*Tuga canadensis* Carr. (Canada hemlock).

Water ext. of needles 10% T mosquito larvae. 643A.

Tunt oil.

Tested against *Lucilia cuprina*, *L. sericata*, and *Calliphora vicina* as stomach poison. 918.

Tuba-buah-daun, see *Diospyros wallichii*.

Tuba cherok, see *Dioscorea plicatissima*.

Tuba hantu.

5% Water ext. of roots 40% T larvae of *Parasa herbifera*. 933B.

Tuba janrok.

5% Water ext. of roots 100% T larvae of *Parasa herbifera*. 933B.

Tuba kupak, see *Coccoloba blumeana*.

Tuba riam.

5% Water ext. of roots NT *Parasa herbifera*. 933B.

Tuba sasan.

5% Water ext. of roots NT *Parasa herbifera*. 933B.

Tuba tapah.

5% Water ext. of roots 20% T *Parasa herbifera*. 933B.

Tulip, common, see *Tulipa gesneriana*.

Tulip tree, see *Liriodendron tulipifera*.

Tulip tree of India, see *Thespesia populnea*.

*Tulipa gesneriana* L. (Common tulip).

Ext. were not repellent to Japanese beetle. 933B.

Tung-oil tree, see *Alseodaphne fordii*.

Tupelo, see *Nyssa sylvatica*.

Turkey red oil, see *Ricinus communis*.

Turkeymullein, see *Eremocarpus setigerus*.

Turnaria, see *Cercaria longa*.

Turnip, Indian, see *Arisaema dracontium*.

Turpentine, see *Pinus longifolia*.

Turtlehead, see *Chelone glabra*.

Tussilage farfara. (Collisfoot).

Water ext. of root 70% T mosquito larvae. 643A.

Twinleaf, see *Jeffersonia diphylla*.

*Tylophora asthmatica* (Willd.) W. and A.

5% Aloh. ext. of whole plant 80% T *Achoas janata* and 10% ext. 100% T; 20% water suspension of

powdered whole plant 40% T nymphs of mango hoppers. 933B.

*Tylophora fasciculata* Ham.

Leaves and roots T rats and other vermin. 933.

*Typha angustifolia* L. (Narrowleaf cattail).

Ext. were not repellent to Japanese beetle. 933B.

*Typha latifolia* L. (Common cattail).

Ext. were not repellent to Japanese beetle. 933B.

*Ulex europaeus* L. (Gorse).

2% And 1% crude aloh. ext. of seeds 100% and 55% T bean aphids, while an 0.08% nicotine solution was 98% T. 933B.

*Ulmus americana* L. (American elm).

Water ext. of leaves 10% T mosquito larvae. 643A.

*Umbellularia californica* (Hook. and Arn.) Nutt.

(*Oreodaphne californica* Nees; California laurel).

Leaves appeared to be valuable repellent to fleas. 933B.

*Uncaria gambir* Roxb. (*Ouroparia gambir* (Hunter)

Baillon; gambier).

Commercial ext. was repellent to Japanese beetle. 933B.

*Unifolium canadense*, see *Maianthemum canadense*.

*Urtica pisa* Desv.

Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.

*Urginea maritima* Baker. (*U. scilla* Steinh.; *Scilla*

*maritima* L.; squill; sea onion).

Sprays containing ext. of squill and a male fern

*T. Cochylis* and *Eudemis* on grapevines in France;

extractum scillae (10% in water) NT *Prodenia*

*litura*; ext. of bulbs 20% T mosquito larvae;

ext. were not repellent to Japanese beetle. 643A, 933B.

*Uvaria latifolia*, see *Melodorum latifolia*.

*Uvularia perfoliata* L. (Wood merrybells).

Ext. were not repellent to Japanese beetle. 933B.

*Vaccinium* sp. (Blueberry).

Ext. from leaves and berries were repellent to Japanese beetle. 933B.

*Vagneria trifolia*, see *Smilacina trifolia*.

*Valeriana officinalis* L. (Valerian).

Acetone ext. of root T mosquito larvae; oil 79-80% T *Lucilia cuprina* larvae. 645, 849.

Vanilla, Carolina-, see *Trillia odoratissima*.

Vanilla planifolia Andrews. (Vanilla bean).

20% T body louse. 933B.

*Vateria indica* L.

An effective and cheap viscous adhesive for banding to prevent ants from reaching crowns of trees was

prepared with 10 os. powdered Manila gum copal (gums of this species), 1 pt. castor oil, and 1 os. beeswax. 933B.

Velvet tree, see *Phellodendron amurense*.

*Ventilago madraspatana* Gaertn.

Powdered bark, mixed with gingelly oil, used in southern India as external application for itch and other skin diseases. 933B.

*Veratrum album* L. (White false-hellebore).

T roaches and silkworms. 933.

*Veratrum album viride*, see *Veratrum viride*.

*Veratrum californicum* Durand.

Powdered roots NT grasshoppers. 933.

*Veratrum nigrum* L. 933.

*Veratrum officinale*, see *Schoenocaulon officinale*.

*Veratrum viride* Ait. (*V. album viride* Baker; American false-hellebore; green hellebore).

This species contains alkaloids which are very toxic to a number of insects. 491, 933.

*Veratrum* spp.

Powdered roots (*V. album* and *V. viride*) have been proved to prevent the emergence of houseflies from horse manure, being 95.5% T maggots exposed to its action. 933B.

*Verbascum blattaria* L. (Moth mullein).

Used as dust ST roaches and tent caterpillars; used as stomach poison ST grasshoppers. 933.

*Verbascum phloxoides*. (Clasping mullein).

Acetone ext. of flowers T mosquito larvae. 645.

*Verbascum thapsiforme*. (Wool mullein).

Acetone ext. of flowers T mosquito larvae. 645.

*Verbascum thapsus* L. (Flannel mullein).

Acetone ext. of leaves NT mosquito larvae; NT cotton caterpillars. 645, 933.

- Verbena hastata*. (Blue verbena).  
Acetone ext. of whole plant 30% T mosquito larvae. 643A.
- Veronica anthelmintica* (L.) Willd.  
Bruised seeds employed as means of destroying pediculi. 933.
- Veronica noveboracensis* (L.) Willd. (Common ironweed).  
Alch. ext. and decoction NT cotton caterpillars. 933.
- Veronica officinalis* L. (Speedwell).  
Exts. were not repellent to Japanese beetle. 933B.
- Veronicastrum virginicum*. (*Veronica virginica*; cultivar's root).  
Water ext. of root 15% T mosquito larvae. 643A.
- Vertivert*, foreign, oil of.
- 50-40% T *Lucilia cuprina* larvae. 849.
- Vetch, hairy, see *Vicia villosa*.
- Vetiveria zizanioides* (L.) Nash. (*Andropogon zizanioides* Urb.; cuscus grass; vetiver).  
In Gold Coast, Africa, dried roots of grass when placed among clothes, prevented insect attack; an ointment prepared from oil was employed in removing pediculi from hair; roots used as insecticide. 933B.
- Viburnum dentatum* L. (Arrow-wood).  
Exts. were not repellent to Japanese beetle. 933B.
- Viburnum prunifolium*. (Black haw).  
Acetone and water ext. of root bark 30% T mosquito larvae. 643A.
- Viola villosa* Roth. (Hairy vetch).  
Exts. were not repellent to Japanese beetle. 933B.
- Vine, kudzu, see *Pueraria hirsuta*.
- Vine, matrimony, see *Lycium halimifolium*.
- Vine, thunder god, see *Tripterygium wilfordii*.
- Viola papilionacea* Pursh. (Butterfly violet).  
Exts. were not repellent to Japanese beetle. 933B.
- Viola tricolor* L. (Common pansy).  
Exts. were not repellent to Japanese beetle. 933B.
- Violet, butterfly, see *Viola papilionacea*.
- Vitex gnus-castus* L. (Lilac chaste-tree).  
Branches of this tree were hung in huts, as flies are said to avoid this species. 933.
- Vitex negundo* L. (Negundo chaste tree; nochi).  
Leaves scattered among clothes are said to preserve them from attack by insects; 5% alch. ext. of leaves 90% T *Plutella maculipennis*, 50-75% T *Prodenia litura*, 20% T *Crocidolomia binotalis*, and 100% T *Eupnotia fraterna*, *Pericallis vicini*, and *Achaea janata*. 933B.
- Vitis hederaea*, see *Parthenocissus quinquefolia*.
- Vitis setosa* Wall.  
Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.
- Volkameria infortunata*, see *Clerodendrum infortunatum*.
- Wafer ash, see *Ptelea trifoliata*.
- Wahoo, see *Euonymus atropurpureus*.
- Walnut, black, see *Juglans nigra*.
- Walnut, Persian, see *Juglans regia*.
- Walsura plicidra* Roxb. (*Trichilia trifoliata* Wall.).  
Arabs used fruit in hair wash to kill vermin and in an ointment to cure itch. 933B.
- Watermelon, see *Citrullus vulgaris*.
- Wattle, Sydney, see *Acacia longifolia*.
- Waxmyrtle, southern, see *Myrica cerifera*.
- Weed, bugle, see *Lycopus virginicus*.
- Weed, jimson, see *Datura stramonium*.
- Weed, pickerel, see *Pontederia cordata*.
- Weed, smart, see *Polygonum pennsylvanicum*.
- Weeds. (Species not stated).  
Powder kills mechanically rather than by poisoning larvae of mosquito. 933.
- Wheat, see *Triticum sp.*
- White fringetree, see *Chionanthus virginicus*.
- Wickstroemia nutans* Champ.  
Gave low mortality to several species of insects. 937.
- Willow, black, see *Salix nigra*.
- Winterberry, common, see *Ilex verticillata*.
- Wintercress, bitter, see *Barbarea vulgaris*.
- Wintergreen, see *Gaultheria procumbens*.
- Witch-hazel, see *Hamamelis virginiana*.
- Withania somnifera* Dunal. 933.
- Woadwaxen, see *Genista tinctoria*.
- Wood flour. (Wood meal).  
Used for mothproofing purposes. 337P, 397P, 432P, 467P, 643P, 1175, 1176.
- Wood-sorrel, yellow, see *Oxalis stricta*.
- Wormseed, see *Chenopodium ambrosioides*.
- Wormseed, levant, see *Artemisia pauciflora*.
- Wormwood, common, see *Artemisia absinthium*.
- Xanthoxylum strumarium* L. (Cocklebur).  
Decoction and alch. ext. NT cotton caterpillars. 933.
- Xanthorhiza simplicissima*. (*X. epifolia*; yellow root).  
Acetone and water ext. of root 5% T mosquito larvae. 643A.
- Xanthorrhoea hastilis* R. Br. (Black-boy tree).  
An Australian patent recommends washing sheep with mixture of 100 parts oil obtained by destructive distillation of black-boy or yacca-gummi, and 50 parts of fish oil. 933B.
- Xanthoxylum*, see *Zanthoxylum*.
- Ximeais americana* L. (*X. inermis* L.; *X. spinosa* Salisb.; tallow-nut; tallowwood).  
To scores of domestic animals to keep off flies. 933.
- Xylocarpus carapa*, see *Carapa guianensis*.
- Xyris indica* L.  
Used as remedy for itch in India. 933B.
- Yahoot.  
Roots tested in preliminary manner for insecticidal value. 933B.
- Yam, wild, see *Dioscorea villosa*.
- Yarrow, camphor, see *Achillea nobilis*.
- Yarrow, common, see *Achillea millefolium*.
- Yellow root, see *Xanthorhiza simplicissima*.
- Yerba de la pulga, see *Helenium sp.*
- Yerba santa, see *Eriodictyon californicum*.
- Yew, Japanese, see *Taxus cuspidata*.
- Ylang ylang, see *Cananga odorata*.
- Zanthoxylum americanum* Mill. (Prickly-ash).  
Exts. from dried bark were repellent to Japanese beetle; acetone ext. of berries 60% T mosquito larvae. 643A, 933B.
- Zanthoxylum clava-herculis* L. (*Z. carolinianum* Lam.; *Z. fraxinifolium* Walt.; *Z. tricarpum* Michx.; *Pagora clava-herculis* Small; hercules-club).  
Acetone ext. of bark T mosquito larvae; HT house-flies; powdered leaves obnoxious to cotton caterpillars. 645, 820, 933.
- Zanthoxylum hamiltonianum* Wall. (Tes-moora).  
Roots used as fish poison; boiled fresh solution of roots T mosquito larvae. 933B.
- Zanthoxylum piperitum* DC. (Japanese pepper).  
Upper layer of a pyrethrum ext., mixed with creosote or camphor oil, paradichlorobenzene, and seed oil of this plant, used as insecticide. 933B.
- Zanthoxylum tricarpum*, see *Zanthoxylum clava-herculis*.
- Zansibar opal tree, see *Trachylebium hornemannianum*.
- Zea mays* L. (Indian corn).  
Oil T cockroach, Colorado potato beetle, and Mexican bean beetle eggs; T *Phenacoccus gossypii*. 73, 265, 933, 1170.
- Zedoary, see *Curcuma zedoaria*.
- Zigadenus muscoetoxicum*, see *Amiathidium muscoetoxicum*.
- Zigadenus venenosus* S. Wats.  
Powders from roots, stems, and leaves and hot-water exts. from them NT grasshoppers, webworms, and potato beetle larvae, and only ST silkworms 933.
- Zingiber officinale*. (Jamaica ginger).  
Acetone ext. of root T mosquito larvae; oil MT *Lucilia cuprina* larvae. 645, 849.

## MISCELLANEOUS PLANT PRODUCTS

### Bromoplerotoxinin.

Gave low toxicity against several insects. 928.

----- 928

NT green peach aphid at 1.0%; 34% T Mexican bean beetle; at 5.0% NT American cockroach and 10% T adult housefly. 928.

### Isoquassin.

NT green peach aphid at 1.0%; 13% T adult Mexican bean beetle; at 5.0% NT adult housefly. 928.

### Latex.

NT *Eutodrepa ponicea*. 750.

Peat extract, in EtOH. 588P.

Peat extract, in MeOH. 588P.

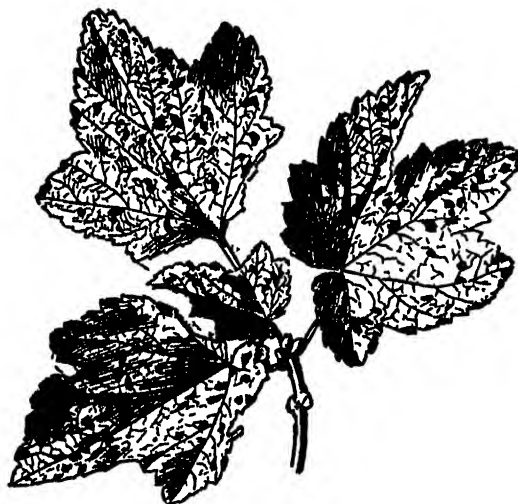
### Picrotoxin.

NT green peach aphid, adult Mexican bean beetle, American cockroach, and adult housefly. 928.

### Quassin.

NT green peach aphid, adult Mexican bean beetle, American cockroach, and adult housefly. 928.

Sulfonic acids. 513, 1432.



# REFERENCES and AUTHOR INDEX

Arranged in Numerical Order  
and Alphabetically by Authors

(The number preceding each citation is the reference number: AIP = Australian Patent; AP = Austrian Patent; BeP = Belgian Patent; BP = British Patent; CP = Canadian Patent; DP = Dutch Patent; FP = French Patent; GP = German Patent; HP = Hungarian Patent; JP = Japanese Patent; RP = Russian Patent; SeP = Swedish Patent; SP = Swiss Patent; USP = United States Patent).

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